# Sorgo Department.

#### The Report on Sorghum.

We believe our readers want to hear both sides of the Sorgo Controversy, and we give in this issue, articles written, it is fair to presume, by well posted friends on both sides. The following review of the long talked of report we find in the columns of the Massachusetts Ploughman:

with the President of the Academy confirms) that the Academy had been requested by the Commissioner of Agriculture, Dr. Loring, to report upon the particular work of the Department done by its late chemist, Dr. Collier. There would have been some reason in such a report since Collier's laboratory analyses were not borne out by his practical attempts at sugar making, and the Commissioner would have been justified in asking the opinion of the National Academy on these conflicting results.

emy on these conflicting results.

Instead of this, we have before us a treatise on the general subject of sorghum, and one by no means creditable. for whatever value it may possess is derived from compilations and quotations from sources at the command of any-body, and we fail to find any attempt by the members of the Committee at a criffection of the committee at a verification or critical consideration of the work of Dr. Collier which was submitted to the Academy. Indeed, beyond the historical data which have already been recorded in standard works, chiefly in old Reports of the Department, there is no vital information—contained in this document other than the experience of a few successful manufacturers in 1882, or subsequent to the time when the Report was first appointed.

Such a document on the sorghum question would have been appropriate as a special from the Department which has all the facilities for compiling and preparing it; but it is not what one expects from a committee of supposed experts required to report on the special chemical work of the Department.

was first submitted.

ture to write an essay on spectrum analysis, solar physics, prehistoric cock-roaches or deep sea marvels, its action would not be more grotesque than its

wonder what there is in the report pro-per of the committee (excluding the appended papers) that could not have been written a quarter of a century ago, and we can imagine the grim satisfaction with which that veteran and renowned chemist (a silent member of the committee), Prof. J. Lawrence Smith, looked upon the efforts of his associates to make certification. to make capital out of facts which he himself had recorded as early as 1857; and the disgust of that other practical chemist, Dr. C. A. Goessmann (who declined to endorse the report), at the work of the committee in a field which he had already fully tred in 1881. already fully trod in 1861.

There is not a substantial fact estab lished by the committee, at least from a chemical standpoint, that was not reenemical standpoint, that was not re-corded by Vilmorin as early as 1855, or by Lovering in 1857. or by the earlier chemists of the Department of Agricul-ture; and the aim and object of the com-mittee is rather laughably revealed when (p. 59) they put the cart before the horse and declare: "How closely most of Vil-morin's [1855] results converse with

hum bears no comparison with eorn as a crop, for this last, according to Collier, will, after yielding an ordinary crop of corn, give also, 1500 lbs. of sugar to the improved work of defecation, in order in the particular questions which they

The Report of, the

National Academy of Sciences.
Scientific and Economic relations of the Sorghum Sugar industry is just from the Government printing office. From the many references to this document, its asserted great usefulness to the farmers of the country and the loud complaint about its tardy appearance, we were led to expect something really valuable in the way of a report. After carefully racking the document over, we feel deep tracking the document over, we feel deep to them in this year's operations and the sorghum grower may learn something useful, (all the important ones are thing useful the document of the thing useful the problem. The committee the above the problem of the problem. The co exception of three, all its conclusions, which it credits to Collier are old sorg-hum truisms. The three conclusions which form the grgantic-outcome of all this work and which have been so vaunt-

ed, are 1 .- That there is "practically little difference in the varieties of sorghum as to their content of sugar."

2.—That the sorghum seed "is a valu-

able feed crop comparable for fattening animals with maize."

3.—That the best time to cut the cane when the seed is ripe.

With regard to the first and second conclusions, they are at variance with the practical good sense and experience of the country, and could only have re-sulted from theoretical figuring from closet and llaboratory tests by an im-practical person practical person.

with regard to the third, which the committee deem the most important result of Collier's five years' labor, the report itself shows that experience is quite conflicting, and we have wondered why the conclusion which Collier has adopted (but by no means originated, as the com-mittee supposes) should be accepted as final in the face of the opposed experience of some of the best practical sorg-hum sugar makers like Weber & Sco-ville, or of such chemists as Goessmann. The attention of our readers is called

all the facilities for compiling and preparing it; but it is not what one expects from a committee of supposed experts from a committee of supposed experts required to report on the special chemical work of the Department.

The Report is in three parts: Part 1. contains 26 pp. of matter which comprises the report proper of the committee; Part II. contains 10 pp. of matter, being a summary with much repetition of Part II.; while Part III., which forms the balance (about 100 pp.) and the bulk of the Report, consists of "appended papers." This part contains some the valuable experiences, just such as the Commissioner of Agriculture has either already published or would be likely to publish, and one naturally wonders what could influence a Committee of the National Academy to lead it to suppose that the Commissioner of Agriculture called on it to do such simple work as his own Department is so well fitted to do. If the Academy should call upon the Commissioner to appoint a committee from the Department of Agriculture, have been intelligently carried out." Perhaps the researches of the Laboratory of the Department of Agriculture, has helped successful sugar makers, but it has done so by their havring been wise enough to avoid its blunders. to a few of the extraordinary statements out." Perhaps the researches of the Laboratory of the Department of Agri-culture, has helped successful sugar makers, but it has done so by their having been wise enough to avoid its blun-

construction of Dr. Loring's request, which, by the way, is omitted from the official correspondence of the Report.

The curious reader who is in any way familiar with the sorghum industry will wonder what there is in the property and the sugar present in the s On page 50 the committee says: "From od of manufacturing sirup was such that nearly all of the sugar present in the juices of the sorghum or maize could be secured in the sirup; without inver-

It seems somewhat strange if this be so that in the practical working of the sugar crop at the Department, scarcely a trace of crystallizable sugar was secured, although the analysis showed nearly ten times as much crystallizable as uncrystallizable sugar in the raw juice. The only conclusion which we can draw from this strange result is either that Collier's analyses were made on single selected canes, and hence were of value whatever practically, or that the report of Collier to the committee is un-

The committee begin the closing paragraph of their report by saying:—The practicability of separating sugar from sorghum has been abundantly shown in a multitude of examples;" and we may add that the committee by their unscien tific and irrational alleged investigation have done much to widen the breach be-

(p. 59) they put the cart before the horse and declare: "How closely most of Vilmorin's [1855] results compare with those of Dr. Collier' [1880-1]! In fact it those of Dr. Collier' [1880-1]! In fact it those of Dr. Collier' [1880-1]! In fact it those of Dr. Collier's methods are reliable, then sorgtween sorghum and sugar.

hum bears no comparison with corn as a crop, for this last, according to Collier, will, after yielding an ordinary crop of corn, give also, 1500 lbs. of sugar to the acre, and the bagasse will then be better than fodder for feeding purposes. On page 44 are some tables, quoted from Collier, which show that as high as 15 per cent of cane sugar was obtained from maize stalks, while 16.18 per cent may be arrived at. They seem to have forgotten also that to impart to the results of agricultural field experiments carried on in Washington any particular practice, a comparison of his analyses (p.44) with one by Weber and Scoville (p. 110) does him httle credit: while the specimen of the Committee's arithmetic on p. 44 ("16.18 per cent less 1.80 per cent.") does not enchance our opinion of its ability to judge of the problem. With its talk about "an Agricultural Species" (p. 23) and the "normal operation of natural causes," the plain farmers of the country will demand in vain the promised practical truths that were to be so useful to them in this year's operations and broad the promised to them in this year's operations and broad the country has been long delayed to the proticular truths that were to be so useful to them in this year's operations and broad truths that were to be so useful to them in this year's operations and broad truths that were to be so useful to them in this year's operations and broad truths that were to be so useful to them in this year's operations and broad truths that were to be so useful to them in this year's operations and have ever found in him an intelligence of the problem. With its talk about "an Agricultural Species" (p. 23) and the "normal operation of natural results of the problem."

The Department the question of securing, if possible, an more satisfactory defectation. In order that a fectually av

been persistently informed for many months. But when we read in a prefa-tory note of the Committee that "the draft of this report was submitted to the National Academy of Sciences at its session in Washington in April, 1882;" and that "the official copy of the Document was transmitted to the Commissions of Agrishland Programment sioner of Agriculture in November fol-lowing"—we cannot quite understand why the chemist of the Department and his committee should have allowed the charge of suppressing the report to be hurled incessantly at the Commissioner during the earlier season of 1882, with-out contradiction. We find our consola-tion, however, in the fact that the delay has occasioned no harm to the sorghum industry of the country, whose instruc-tion must come from some other quarter than the small volume of compilation put

#### forth by the Committee of the Academy. Collier vs. Loring.

COL. COLMAN: No writer understands better than Howells how to sketch some representative of a popular folly in a as he was a few years ago, does not escape the kindly satire of his pen. In his inimitable manner, which can hardly fail to provoke a smile even from those he hits, his latest serial pictures to us a loose-jointed, unpractical native of Illi-nois who sees great possibilities in the nois who sees great possibilities in the states, as he has in many another project, for becoming suddenly rich, that "consummation devoutly to be wished" by all Americans. Col. Sellers and this man, who has just enough of the inventive, discovering spirit to half win our sympathy and interest, and yet not enough knowledge to save his heroic efforts from being futile, embody to many minds the type of the believer in the profits of the sorroum culture.

scheme from visionary dreams to years labor in the agricultural department has solved problems and overcome difficulties that a score of years could not have begun to settle, had farmers worked on unaided by him. Experiments in the laboratory and the employment of the results of those experiments on a large scale at Rio Grande and other places show conclusively that this is no wild dream, but that the supplying of the home market for sugar with the home product is practicable. Slow men are beginning to appreciate this; conservative men are admitting it. Already Eastern farmers are saying, "if we intend to make anything in this business we must not delay, or the West will sweep on by us absorbing large profits" and the Westerness are thoroughly. and the Westerners are thoroughly countries to arouse the interest of all who care for economy, since it directly affects to be economy, since it directly affects the expenditures of every family in the land.

he has been treated since his efforts have been successful, and others are beginning to reap rich returns from them. \*

His only crime. in my opinion, was much zeal in helping on the interests of the country, and for that he has been removed from office and we are deprived of further benefit from his services. The successful operation an irrigation canal with an abundance of water to overflow with an abundance of water to overflow he at thousand acres in a few hours. We strange treatment of the Report of the a thousand acres in a few hours. strange treatment of the Report of the Academy of Science which gave him only the praise his dur, is beyond reasonable expanation. My judgment, from all I can learn on the subject, and I have spoken with friends of Dr. Loring as well as with many who feel justly aggreved, is, that the Government Chemist was removed simply because men had come to recognize the fact that he was completed by the fact that the was completed by the was completed by the fact that the was completed by the fact that the was completed by the fact that the was completed by the was completed by the was completed by the fact that the was completed by the fact that the was completed by the fact that the was

Verona, N. Y.

#### From Indiana.

COL. COLMAN: To the many readers of the RURAL WORLD, I have many good wishes. The paper reaches me every Saturday evening, and I hasten at once to see if there is anything on the first page that will benefit me. I often find the page only half full (or a little more) of the reading that most interests me. I think there is not the interest taken that there ought to be. For my part I could read the old story over every week-how this one plants, how that one cultivates, how another one harvests, etc., etc. Since the kind editor has devoted one page of his paper to the interest of sorthur. his paper to the interest of sorghum raisers, let's chip in and fill it up; it will help all of us. I have been in the business for three years, and read the paper for about four, and I feel yet as though I could learn for a long time to come. When I see so little interest taken in the ridiculous light. The sorghum enthusiast, RURAL WORLD by the more experienced look out, for capital is very apt to try to

sugar manufacture for our Western will mold if piled only for a day or two with the blades on. There has been some complaint of poor seed, but the stand is good. The season has been very wet and late cane stands from four inches wet and rate can rate and the state of the s

P. S. I expect to manufacture a large minds the type of the believer in the profits of the sorghum culture.

But there has been one man who, by his painstaking scientific labor and unremitting perseverance, has brought the coming season. Process very simple. Will this be stale or rare reading in the RURAL WORLD? Let us hear from the editor as well as from the many readers.

## Avilla, Indiana, July 14th, 1883

## Important-For Sale.

Kansas, who explains that the reasons therefor is advancing age, and consequent inability to give the business his personal supervision:

And what reward is he receiving for his approved machinery for successfully great work? As a farmer myself and a sorghum-grower, I wish to add my proform Northern cane, such as vacuum test to that of the many others who have already spoken against the way in which liller, defecators, evaporators, &c.; also he has been treated since his efforts have warm room for granulating sugar. Ca-

#### **Ouestions** and Answers.

EDITOR RURAL WORLD: Enclosed find a few questions and answers. As I ored to give my views. Hope it will help some of my sorgo brethren who have had less experience. I began it in not 1866, and have worked at it ever since, have not missed a year, still have faith in the sorghum industry, and intend to stick to it, and I know it will stick to me. I learn much from the RURAL. Hope that the brethren will fully discuss but not cuss the sorgo interest. Yours,

Hastings, Neb. 1. How many pounds of sorghum rup or molasses make a gallon?

Eleven pounds. How can I make the lightest and est molasses?

Ans. By evaporating in a shallow body

and as quick as possible, and by skimming thoroughly.

3. How long should the juice be on vaporator?
Aus. Not over thirty minutes

Ans. Not over thirty induced.

4. What kind of barrels are best for orghum? Ans. New cypress, but second-hand molasses barrels will do if well cleansed with lime and boiling water.

Will it do to keep sorghum in warm, dry place?
Ans. No. It should be kept in a cool, moist place, or the barrels will leak.
6. Where can I sell my sirup?

6. Where can I sell my surup.

Ans. At home, if you make a good article. If you don't make it good, don't try to sell it at all.

7. What is the best way to strip cane?

8. How can I top cane fast?
Ans. Take a sharp corn knife, go backwards on each row, letting the cane bend under your left arm, and clip off the tops as you come to them.

9. Is it best to strip the cane or work to without? it without?

it without?

Ans. It pays to strip it.

10. How may new beginners learn the business of molasses making?

Ans. By working at it himself. Experience is the best knowledge.

ois, met at Belleville a few days since with Mr. Henry Studniczka, of St. Louis,

We will welcome a description of your method of preparing jelly from apple method of preparing jelly from apple cider, and will speak for our readers so far as to say that very many of them will do likewise.

Important—For Sale. The following has been sent us by Mr.
Bennyworth, of the Pioneer Sugar and Sirup Factory, Kinsley, Edwards county, said to be in Zombar in Hungary. It was made to use beets for sugar making, but in the melon season finds it more profitable to use melons. Los Angeles should have a factory of this character. The expense would be trifling-a couple of brick arches, with an evaporating pan on each, would make a barrel of good sugar per pay. The only thing needed is to use the best method of clarifying ns to use the best method of carriying the sugar. It requires all the product of our gold and silver mines now to send abroad to pay our sugar and molasses bills. We can stop a large portion by making sirup.—Los Angeles Herald.

This year the Lafayette Sugar Refinery This year the Lafayette Sugar Refinery has removed into the country seven miles from Lafayette, near West Point, Ind.; has erected suitable buildings, will plant 200 acres of sorghum; will buy all that can be had besides; and are using 200 pounds of phosphate with each acre of corn. Prof. H. W. Wiley has withdrawn from the company and E. W. Deming is superintendent.

In Russell County, Kas., the cane crop is very promising, better than last year at this time. We have planted Early Kansas Red principally and it promises to make earlier (a te than last year, being now two feet high. The average in this county is increased fully fifty per cent. over that of last year. E. S. C. F.

Col Curtis says a patch of sorghum to cut in September to feed the pigs has become a necessity. A quarter of an acre sowed in drills will keep twenty pigs growing for a month. He also says it is good to induce a full flow of milk from the cows.

Any one wishing to get Isaac A. Hedges' book on the cultivation of Northern sugar cane can get it by sending one dollar to this office.

#### Soil Exhaustion-No. 2. ED. RURAL WORLD: The direct rela-

tion of sale crops to the fertility of the have seen some of them asked and an- farm, as indicated, can be, so far as the swered in the Rural, I have endeavelelements of the plant growth are concerned, quite accurately stated; but this direct soil depletion by sale crops is not the only loss we have to meet when those sale crops are those involving tillage. The crops sold those involving tillage. The crops sold from this State are tillage crops, or crops calling for the use of implements to stir the soil annually and involving a bare surface over a considerable portion of the year. One of the obvious and visible results of tillage crops versus grass is the washing of the ground. Over our corn fields I notice frequent underground surface channels formed by the water in heavy rains, the surface of the ground heavy rains, the surface of the ground heavy rains, the surface of the ground itself being formed in minute channels up to those of considerable proportion. Our fine soil favors this movement of soil in rains and, unfortunately, it is the finest and best of the soil that is moved by water, the soluble and the more easily soluble portions of the soil. The magnitude of this movement is attested by our muddy rivers, deeply soilladen, in marked contrast with the clear laden, in marked contrast with the naden, in marked contrast with the clear waters of New England, yet those New England waters are impure enough to be valuable for irrigation, as experience has proven. The Mississippi river is said to carry to the Gulf of Mexico 8,000,000 feet of solid matter hourly, and the more tillage crops are grown in its valley the more impurities it is bound to carry. The invisible losses resulting from tillage have a deep significance, and would have force with each individual farmer if the American farmer fostered local attach-ments more, and cherished the hope that ments more, and cherished the heritage of his farm would become the heritage of his family line through generations. Two avenues of loss are opened by tillage; one by escape of nitrogen from the soil in dry times from a bare surface, and the other by leaching of nitrogen in its com-pounds and the loss of soluble salts from the leaching of rains. The discussion of these points might be extended so fully as to become offensive to the practical nut. I must insist, however, that these points are no fanciful conceptions of scholastic farmers, nor of such insignificance as to be merely calculated to please

perience is the best knowledge.

St Clair County, Illinois.

Succeeding the efforts that have been making for some months past, the enterprising farmers of St. Clair county, Illiprojection of the county in the projection of the county is a shown that soil 3 inches down and Is shown that soil 3 inches down that soil 3 inches do shown that soil 3 inches deep and 15 inches in diameter, exposed to rain from July 4 to October 4, had washed from it. and after an address from him and an interchange of thought, formed a stock company for the manufacture of sugar and sirup from Northern cane, with a subscribed capital of \$25,000. The tormation of such companies in the cane industry are becoming more and more popular every year thoughout the country.

July 4 to October 4, had washed from it, where nothing was grown 220 grains of solid matter. Where clover was grown and still master. Where clover was grown as folia matter. Where clover was grown as folia matter. Where clover was grown as folia matter. Where clover was grown 20 grains of solid matter. Where clover was grown as folia matter. Where clover was grown 220 grains of solid matter. Where clover was grown 220 grains of solid matter. Where clover was grown 220 grains of solid matter. Where clover was grown and subscribed capital of \$25,000. The tormation of such companies in the cane industry are becoming more and more popular every year thoughout the country of the companies in the cane industry are becoming more and more popular every year thoughout the country of the companies in the cane industry are becoming more and more popular every year thoughout the country of the companies in the cane industry are becoming more and more popular every year thoughout the country of the companies in the cane industry are becoming more and more popular every year thoughout the country of the companies in the cane industry are becoming more and more popular every year thoughout the country of the companies in the cane industry are becoming more and more popular every year thoughout the country of the cou is simply a convenient expression of a general fact for soils where leaching oc-curs. Sir John B. Laws has just pub-There is no place in the world so favorable to the growth of melons as Southern California. Two crops can easily be raised, and from the pulp of the watermelon, or the nutmeg melon, a feet evacuate of signs and snear can be

Roots grown continuously by min-

 Pastme laid down in 1863
 0.1740

 Pasture laid down in 1838
 0.1949

 Very old pasture, age unknown
 0.2466

Warrington, speaking for Rothamstead, shows that there is not only twice the nitrogen in pasture that there is in tilled field, but twice also of carbon. Again I have before me tables of Sir John's that show a loss of 40 lbs. to 50 lbs. of nitric acid yearly in a 60-inch rain lysimetre, an again that loss is less from a covered soil than from an open or uncropped soil. A loss to the Mississippi valley of 2,000 tons daily of nitrogen is estimated, which is equivalent to 18 lbs. per acre yearly for each acre of the valley. This fact has no particular relation to my subject further than to show a drainage loss, a loss that ses with increase of tillage yould decrease with decrease of tillage

crops.

As my purpose is to point out the fact of loss by tillage cropping, rather than to enforce the fact, I will not enter into a detailed statement by way of proof. I expect the general fact to interest but fow, but give it as an additional vessel. few, but give it as an additional reason in antagonism to our faulty system of farming that is selling the very fat of the land to enrich foreign lands, without en-riching our own people; for the point of fertility is now reached, over large areas, where the crop is of so low average that it does not enrich the producers. Sur-veying the field from the standpoint of a broad State policy, and in the interest of the coming generation of farmers, the facts militate fairly and strongly agains, the sale of raw products from our borders. If it is allowable, let me suggest that the higher the type of farming the broader the manhood it develops. If I should attend to the result of tempt to elucidate this point the relation of intelligence to the social and material position of the farmer would need be surveyed, and thus too broad a field would be opened. Happily the type of farming that promises the greatest individual profit to our farmers mainly avoids both the evils reviewed. J. W. SANBORN.
College Farm, Columbia, Mo.

# The Shepherd.

#### Pandering to Prejudice.

The position of the RURAL WORLD the tariff as conducive thereto, is well known to its readers. The theories entertained and advocated by the New England press and commission men were given fully in our last issue, and they confirmed all that we have said; namely, that the tariff has so far produced but a slight influence or effect on the market, unless in so far as speculators and manipulators have attempted to make the people believe so. This, however, had its effect upon many, and the wool-growers of Ohio, manipulated by politicians whose statements were re-peated and pandered to by the press, without stopping to examine the matter for themselves, or trace effects back to causes, early jumped to the conclusion that all their losses were chargable to the tariff and this to the tariff commission.

Meetings were held, speeches were made, resolutions adopted and published, just as though a deserving industry had been most unmercifully and unjustly attacked, and that the best people in the

tacked, and that the best people in the world—the wool-growers—were to be unconscionably ruined by a soulless congress and their tools, and dupes the commission appointed by it.

This sudden and unheard of interest in the wool-growers' welfare, on the part of the politicians and the press, did not excite a suspicion in the minds of their proteges; on the contrary fhey accepted in good faith the hand extended to them, false though it was; the voice was the voice of Jacob, but the hand was the hand of Esau. and of Esau.

Whoever heard of the politicians tak-

ing the slightest interest in the wool-growers, or other farmers, unless 'they had an axe to grind, and could gain their sympathy and votes by throwing dust in their eyes, and then lead them like lambs, to the slaughter? The Ohio fusilade was taken up and echoed by the mountains of prejudice and shallow-pated ignorance in a number of states, and was heard for a time, again and again, until 'e sober second thought had matured and reason had time to examine the question and determine it on ing the slightest interest in the woolamine the question and determine it on its merits; then, lo and behold you, it was not the reduction of the tariff—which hadn't gone into effect—but the over pro-

"There are probably 2,000 woolen mills in the United States. Many of them must be small, for the table of the last census show that the 490 mills in New England consume more than half of the wool which is manufactured in the country. Facts which have been collected from that section, by the Boston Advertiser, therefore, are of special importance. It must be admitted that their showing is poor. New Englanders are not men to give up at the first call of over production. They will seek to make their proportion. They will seek to make their proportion of must on has received the production of must on have the production o

supplying an equally good market at home for the manufactured article, this wholesale suspension would not have the manufactured article, this wholesale suspension would not have the manufactured article, this wholesale suspension would not have the manufacture of the manufactur been a necessity, hence would not have taken place.

But the rolling and processity and part of the profit.

But the political writers and speakers will still make a show of a bad case even though it be made out of whole cloth, as the following from the Bethany, Mo., Republican witnesses:

the following from the Bethany, Mo., Republican witnesses:
"We call attention to an article that appears on our first page, taken from a exchange, in which the wool market is discussed and its condition shown. Wool is lower this year than it has been for years and even at its rating price, dealers and manufacturers hesitate to handle it.
The reson for this is plain. In a few. The reason for this is plain. In a few months a Democratic House will convene, and it is the fear of its action on the wool tariff that now makes such uncertainty and dread. The Democratic party is committed to free trade, and if possible will remove what little tariff that is now charged upon foreign wool, and throw our market open to the competition of the other wool-producing parts of the world. Who is the sufferer by this? The farmer and sheep raiser! How many thousands of dollars will the farmers of Harrison county alone lose this year by the tariff agitation, and its effect upon the price of our wool? Who is responsithe price of cur wool? Who is responsi-ble for it? The Democratic party. The present low prices of wool, and the rea-son causing it, is a stronger argument for protection, as a benefit to farmers, than columns of satistics. It is practical and shows every man who has a little wool to sell just how free trade will af-fect him. Voters, read the article and ponder over it."

The position of the RURAL WORLD of a great commercial paper published on the price of wool and the influence of in the very midst of the woolen goods

June 23d, publishes a list of twenty-five woolen manufacturing companies, which closed on June 16th, as well as several others which would close before July 4th. These are in addition to several companies which had stopped work previous to the 16th. These woolen mills represent a consumption of over 5,000,000 pounds of wool per week. pounds of woof per week. The cause of the suspension of work is the dullness of the woolen goods market, arising from its being glutted by an over-production of woolen goods. No remedy is availa-ble other than that adopted, viz., to suspend work until such time as the demand overtakes the supply. Meantime, thou-sands of operators whose only depend-ence for the support of themselves and families is work in the mills, are thrown out of employment, and much suffering must result to many before work will be resumed. The cost of the raw material from which the stocks of woolen goods now on hand were made was so en-hanced by the high tariff on wool that goods cannot be sent out of the country to be sold in competition with the manufacturers of other nations except at manufacturers of other nations except at a less. Protection has cut off the woolen manufacturer from every market in the world, except our home market. The outlook for the wool grower is not favora-ble for high prices. But while the wool outlook for the wool grower is not favora-ble for high prices. But while the wool grower and manufacturer may suffer from the present condition of the wool and woolen goods market, the public at large is getting cheaper goods. We have never in our recollection seen clothing and other woolen goods so cheap as at the present time. When a good boys' suit can be bought for from four to seven dollars, and a respectable business suit. dollars, and a respectable business suit for from nine to fourteen dollars, clothing is within the reach of the million

wool or Mutton.

It is oftentimes the case that when an industry by any means gets a "set back" men engaged in it are apt to "fly the track," and look for something else, something that is in the flow of prosperity and at present unhindered by checks and unburdened by prejudice. That many will be induced to do this with wool growing with the present outlook may be expected, be the cause of stagnation what it may. There is little occasion for this however if we but diligently and economically pursue our vocation, for the man that breeds sheep has 'three joined in one," lambs, wool and mutton, and more. A late issue of the Chicago Tribute discourses on sheep husbandry thusband in one," lambs, wool and mutton, and more. A late issue of the Chicago Tribute discourses on sheep husbandry thusband in one, "I through the discourses on sheep husbandry thusband in one," lambs, wool and mutton, and more. A late issue of the Chicago Tribute discourses on sheep husbandry thusband in one, "I through the profitably, even on lands near the great freshly heated. After leaving the bath of the wheter for a day or two previous to the operation not only cleanses, them, but softens the hoof, which is an important matter, since after some hours' soaking the pocket-knife will readily pare away a hoof which when the track," and look for something that is in the flow of prosperity and at present unhindered by checks and unburdened by prejudice. That many will be induced to do this with wool growing with the present outlook may be expected, be the cause of stagnation will be soaking the pocket-knife will readily pare away a hoof which when the track," and look for something that is in the flow of prosperity and the readily pare away a hoof which when the track," and look for something that is in the flow of prosperity and the readily pare away a hoof which when the clean and mallet. As the operation generally has to keep the flock on dry feed a day or two long that the dung under-foot when the time. The multitude of bee hives, patented o hadn't gone into effect—but the over production of woolen goods by the gluttonous manufacturers that had stagnated the markets. They had bought wool and manufactured it into cloth, until the stocks had accumulated beyond their castocks had accumulated beyond the castocks had accumulated beyond the castocks had accumulated beyond the "It may be that wool can still be grown

poor. New Englanders are not men to give up at the first call of over production. They will seek to make their property earn something, while there is any chance. Yet one-third of the 250 mills from which the Advertiser has had reports are now shut down, and the number is likely to be increased one-half by mid-summer. There are 759 sets of cards idle. Makers of cassimeres are most discouraged. Their trade seems to be in a worse condition than that of the worsted or flannel men. So it was in 1879. The effect upon the wool market must be immediate and considerable, The reduction involves less consumption, in New England alone, by over 325,000 pounds a day. When the facts come in fully, as to this year's clip, it will be possible to learn more of this. Generally speaking the mills which are obliged to give up, are the weaker ones, whose goods have no special reputation and command no extra price. The overstocking of the market seems to be genuine. Large auction sales have been held in Boston, within the week, in which goods have been sold at a sacrifice."

If then these mills were more widely distributed over the country, affording a home market for the wool produced and supplying an equally good market, at home for the manufactured article, this

Foot-Rot and its Treatment. Before the treatment is given there ought to be a description made with some care of the disease itself, to prevent faulty diagnosis. In the first place, it is not seated in the biflex canal. This canal is a duct leading from an oil-gland which secretes a viscid whitish unguent for the lubrication of the inside of the hoofs, and which has its mouth of the noots, and which has its mount directly above the cleft in the pout of the foot. Some ignorant men believe that this secretion, when exuding from an unhealty foot somewhat sluggishly in a ductile vermicular string is "the worm of the foot-rot" or the "seed of the foot-rot!" They will press it, cut with the thumb and declare roundly, "there is the very foot-rot itself!" I I have seen a statement somewhere that foot-rot is caused by the obstruction of this canal and its consequent failure to supply the lubricant necessary to prevent galling in the cleft. This view is partly sustained by the circumstance that the disease is most prevalent in those sheep walks where an excessive amount of moisture has a tendency to chill the feet and impede circulation in them.

There are sometimes boils occurring between the hoofs or about the heel, which upon being lanced discharge a quantity of pus; but it is hardly neces-sary to remark that these are not the

rect him. Voters, read the article and ponder over it."

The article referred to was not in that portion of the Bethany paper which received the properties of the serious paper which received the serious paper which receiv dreaded plague.

The article referred to was not in that portion of the Bethany paper which reached this office, hence we know nothing of its transcendent merits, but we do know that the wool-growers of the West cannot be bamboozled by any such barefaced and impudent falsehoods; and this pandering to prejudice, whilst it may be

dreaded plague.

Foot-rot begins in the bridge or junction of the eleft, and its primary stage ton of the eleft, and its primary stage to not the eleft, and its primary stage to save and tronscended by bridges. The transcended and purpose should consists in a transformation of the skin from its normal smoothness, dryness and pink-color to a whitish, parboiled and somewhat wrinkly condition, accompanied by bridges. The transcendent merits are approached by bridges. The transcendent will for such a purpose should be of concrete. It is almost impossible always to have a dry basement unless it be be alid down for the be laid down for the deal of pain and himself a large amount dimensions of either basement or the barn above, except that it requires about and the scale-foot. A thin, serons advances in malignancy, assumes somefaced and impudent falsehoods; and this pandering to prejudice, whilst it may be

made a political cry that shall serve its purpose for a time, can hardly fail, become and make the last end of that man worse than the first. Take the following sober and sensible remarks on the suspension of production from the columns of a great commercial paper published in the very midst of the woolen goods market:

"The Boston Commercial Bulletin, of June 23d, publishes a list of twenty-five woolen manufacturing companies, which closed on June 16th, as well as several others which wooled close before July 4th. the sheep has not already perished miserably from the migration of the virus from the hoof the brisket and its consequent invasion of the entire body, with its army of destroying maggots.

It is not worth while to cumber this article with even a mention of the numerous remedies proposed for foot-rot. Blue vitriol is assigned to the first place by the almost unanimous testimony of

by the almost unanimous testimony of the best flock-masters. Of the dozens of them among my acquaintance, g poor and indifferent, I know of no who uses anything else.

who uses anything else.

The point of supreme importance in the administration of any remedy for foot-rot is to bring the remedial agent in contact with the corrosive poison wherever it is at work, to make it hunt out every minutest germ in its lurking place in the complicated structure of the foot. For this reason, the vitriol will do its work better in water (a saturated solution) than it will in any less diffusible matrix, as white lead, or tar, or any-thing similar. And for the same reason also hot water, as hot as sound flesh can bear it, it is better than cold. Another point of the highest importance is to make the vitriol stay where it is put until it does its work. Hence the hoofs should be as clean as possible from dung and dirtbefore the application is made, and be kept out of water for a day or two afterward. The knife must be applied thoroughly—yet not so as to cause a troublesome effusion of blood—to lay bare the disease in all its hiding—places, cutting away the hoof and the gristly. point of the highest importance is to cutting away the hoof and the gristly integrunents wherever any virus may possibly lurk beneath. To this end any measure which will fetch the sheep's feet much in the water for a day or two

liquid and the replacing of it with some freshly heated. After leaving the bath the sheep should be confined on a dry hard, floor for one or two days, where, if they have been previously kept on dry, feed for a short space, the manure on the floor will not seriously abate the effects of the vitriol on the feet

This is the way to stamp out foot-rot—a process short, sharp and severe, says Stephen Powers in the Ohio Farmer.

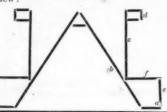
## Sheep Barns.

Sometime during the summer and fall we presume that those who thus far in life have neglected to provide suitable winter shelter for their sheep, will construct at least a comfortable shed and, perhaps, a commodious barn. We wish to say to any who do not realize the fact, that it will nay to do so. The sheen is we presume that those who thus far in life have neglected to provide suitable winter shelter for their sheep, will construct at least a comfortable shed and, perhaps, a commodious barn. We wish to say to any who do not realize the fact, that it will pay to do so. The sheep is pretty well protected by nature, and it is the accepted theory that they can stand the cold, if they are protected from the wet. The theory is correct enough, for we all know that in many cases they do stand it because they have to stand stand the cold, if they are protected from the wet. The theory is correct enough, for we all know that in many cases they do stand it because they have to stand it. Nevertheless it is a fact that cold weather will exhaust the animal heat even of a sheep. There is an English experiment on record where a flockmaster fed a flock in the open field and another in a warm shed, upon precisely the same kind and quantity of food, in winter. The weather we that the sheep sheep is the profit there is in them, they should the same kind and quantity of food, in winter. The weather we that the sheep sheep is the profit there is in them, they should sheep sheep sheep in the profit there is in them, they should she made as cheaply and simply as possible, having regard only to certain reanother in a warm shed, upon precisely the same kind and quantity of food, in winter. The result was that the sheep out doors gained one pound per week while those under the warm shed gained three pounds, and ate less food. This is sufficient without comment. It is perfeetly reasonable, whatever theorists may say. If care is taken to provide perfect ventilation, shelter from the cold, except when exercise is necessary, is very desir-able. As all who have experienced know. there should not be too much crowding, but that is not necessary in order to have shelter. Mr. Mechi struck the nail on the head when he advocated shelter for all farm animals. It is true that we question the advisability of shutting up question the advisability of shutting up animals that have never had any care bestowed upon them. Whenever sheep, or other farm animals, have been turned out from the very beginning of their existence, to rove wild over the fields, without any sort of restraint, the nervous excitement of being confined will more than outweigh any advantage that may be gained. But that is not the way to raise stock. We wish to say right here, that the breeder who begins early to accustom his stock to his presence and to accustom his stock to his presence and voice, to reasonable restraint and in-spires its confidence, will make money

by the operation.

We believe that every flock-master who is engaged at all largely in the business, should have a well-constructed and convenient barn. An open shed is better than nothing, but the best flock-masters in this country now pretty generally agree with the opinion that we have expressed above, that sheep are better in good, warm quarters in winter. by the operation. better in good, warm quarters in winter.

The only question to settle is, what shall the barn be like? Now it ought not to be difficult for what shall the barn be like? be difficult for anybody to plan a barn. unless he wants a very elaborate barn. In constructing a sheep barn, the sheep stables are to be in the basement, but not underground. The structure, therefore, will be so built that the main en-



The bottom of the trough, a, is made of plank 1 1-2x8 inches; b is the sliding board reaching down and is nailed to the bottom board of the trough; crepresent's rack slats, 1 1-2x2 inches nailed to the sliding board six inches from the bottom, sliding board six inches from the bottom, and raising three feet and nailed at the top, d, to a scantling, 2x21-2 inches. The slats are placed three inches apart, and lean from the trough four inches at the top; e is the front side of the trough eight inches wide; f is a bar across the top of the trough, to the rack slate, to divide the trough and to prevent the sheep from getting into it. These bars are placed at every third slat, or may be sucep from getting into it. These bars are placed at every third slat, or may be placed at every second one. This is a grain as well as a hay rack. Nothing is wasted in it, as the short bits slide down the sliding board, through the slats, into the trough, and when covered with a lit-tle meal will be eaten. The rack, as will readily be seen, can be made single as well as double.—Western Rural.

# The Apiary.

on people's toes." Many of the patented hives have good features—some are near-ly perfect—and yet the very best of them will not do the work of either bee-keeper or bees, and that is just what some peo-ple expect a hive to do! It is also what As consistently might one buy a plow or harrow and put it into the field, ex-

pecting it to do his work for him.

pecting it to do his work for him.

Neither will bees do any better in the best hive, without assistance, than in the roughest gum or salt barrel.

The sole advantage in a modern hive over the old style, is to give the beekeeper perfect control of his bees, so that he can know their exact condition at all times, and control and aid them when they need help and control. We have all seen patent hives in which bees have all seen patent hives in which bees have all seen patent hives in which hees. sible, having regard only to certain requisites which we deem absolutely quisites

necessary for profitable bee-keeping.

First. To keep bees either for pleasure are profit, the movable frame in some form must be in every hive. There is no other way to make the matter a certainty by giving the absolute control of the

a square box, or oblong shallow hive— large or small as may best please the

a square box, or oblong shallow hive—
large or small as may best please the
owner. We much prefer a hive as nearly square as possible, and have best success with the frames in such hives.
Third. These frames should be arranged so as to fit perfectly, move easily,
and so as not to touch any of the walls of
the hive and yet not be more than three
eights of an inch distance from them.
Fourth the hives should be all alike so
that every frame will fit every hive in that every frame will fit every hive in your apiary.

Fifth. When increase of stock is desir-

Fifth. When increase of stock is desired the hives must not be more than one foot square inside every way; but if largest amounts of honey are desired, they may be made much larger and will more surely secure that object.

These hives are furnished ready to real together so cheanly that it is poor

nail together so cheaply that it is poor economy to buy in any other way. In the "knock down;" with one hive put together as a guide, any woman can nail

and paint them.

The poorest of all economy is to have hives poorly made of unseasoned lumber A hive should be a "perpetual institution," and however simple, should be well made for every particular. well made in every particular.—Bee and Poultry Monthly.

ROUGH ON RATS.-Clears out rats, mice, roaches, flies, ants, bed-bugs skunks, chipmunks, gophers. 15c. Drug-

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RED WHEATS.

Early Michigan,...... Velvet Chaff, Lancaster, ..... Bearded. AMBER WHEATS. WHITE WHEATS.

Pappahannock, ..... White Chaff, Fall Barley, Seed Rye, Red Rust Proof Oats. GRASS SEED—Timothy, Clover, Red Top, Blue Grass, Orchard Grass, Hemp Seed.

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Brown's IRON BITTERS is one of the very few tonic medicines that are not composed mostly of alcohol or whiskey, thus becoming a fruitful source of intemperance by promoting a desire for rum.

Brown's Iron BITTERS is guaranteed to be a nonintoxicating stimulant, and it will, in nearly every case, take the place of all liquor, and at the same time absolutely kill the desire for whiskey and other intoxi-cating beverages.

Rev. G. W. RICE, editor of the American Christian Re-

Cin., O., Nov. 16, 1881.
Gents:—The foolish wasting of vital force in business, pleasure, and vicious indulgence of our people, makes your preparation a necessity; and if applied, will save hun-dreds who resort to saloons for temporary recuperation.

permanent relief.

view, says of Brown's Iron

Brown's Iron Bitters has been thoroughly tested for dyspepsia, indigestion, biliousness, weakness, debility, overwork, rheumatism, neuralgia, consumption, liver complaints, kidney troubles, &c., and it never fails to render speedy and

# SCROFULA

diseases.

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"Some uponths ago I was troubled with scrofulous sores (uicers) on my legs. The limbs were badly swellen and inflamed, and the sores discharged large quantities of offensive matter. Every remedy I triet failed, until I used AYER'S SARSAPAUILLA, of which I have now taken three bottles, with the result that the sores are healed, and my general health greatly improved. I feel and my general health greatly improved. I feel very grateful for the good your medicine has done me. Yours respectfully, MRS. ANN O'BRIAN."

148 Sullican St., New York, June 24, 1882.

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PREPARED BY

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# Corticultural.

rv patch I am about to describe, is from Warren county, and only commenced operations at Glasgow one year ago last spring. He was told that he could not American Association of Nurserymen, Forists grow strawberries there, as different persons had tried it and failed. But, heedless of these cautions, he embarked in the enterprise with a will. He has three acres in full bearing, of all the leading varieties, as well as the newest ones. He is a regular reader of the RURAL WORLD, and knows how to do things of this sort right. There is not a weed in his patch. He mulched between the rows with straw. Many varieties were not yet in prime order when I was there, but the later ones promise well.

He had calculated on getting ten thousand quarts, but the frost in May cut them considerably, so that they may fall short of his calculation. Since then he has written that he is shipping about ten crates (60 gallons) of berries daily. He has also considerable ground in rasp-berries which look well. So much for a place where they said strawberries would not grow. less of these cautions, he embarked in

to refrain, and every kind of antic was most wonderfully executed in this ink-stained cloud-fleece. Gold darts flew in most prodigal fashion—fire cimeters clove the mountains—falchions and chain shots, like spirits, flew whither they would. They dove into abysses, they smote through water dunder-bergs, they rose to the foos of fursery stock, except peach and grape. into abysses, they smote through water dunder-bergs, they rose to the tops of dunder-bergs, they rose to the fops of cloud snowdons—yes, to the very utmost margin of Hermous and Carmels of storm cloud. Ah, it was a 'sight worth seeing, ''My dear,'' said I, ''what is puny man's pyrotechnics. compared with this glory of the Lord? What are nitrate of potash flashes and flushes, the painted glows and toy-like glories of some city summer evenings, alongside of these skips and thrusts of the electricity that God made. These handsprings and branch some city summer evenings and some city summer evenings and some southern trees, and not wanting in beautiful natives. that God made. These handsprings and dances of fire, these terrible travels of intamable light, through leagues of space, in far less than quarter seconds of time?" And still the moon sat mute and sweet in the East. What contrast between her serenity on one side, and the pictorial frenzy of force and fire on the other! And all the while, lower down, and in the wood-girt circle just forward, the little fire-flies were executing their that God made. These handsprings and and in the wood-girt circle just forward, the little fire-flies were executing their mimic miracles, of coruscation, twink-ling and darkening, specking the air with points of light—so that clearly nothing is either too great or small, too magnificent or too diminutive for God to authorize in the universe of His creation.

ber is a good month for new-comers. We don't much advise wagon travel—but think the railroad a better way of ingress. The roar of the lions is companionable. Day and night the locomopanionable. Day and night the locomotives of the Iron Mountain railhoad toil on tireless. The monarchs of the rail know no weariness or pain. There are no rheumatisms in this brotherhood. The intellect of man is materialized in mechanisms, which by their marvelous multiplication, make this age an astonishment. From some mountain top, who shall count for us the smoke traits of thundering trains endlessly going, going—count the headlights of engines flashing into midnights,—arith—

metically comprehend the strange race Strawberries at Glasgow, Mo.

Col. Colman: By a pressing invitation from a young friend of mine, and one who got his first instructions in horticulture from me, and got also his first plants, I took passage on the steamer Montana from here for Glasgow. Henry Schnell, the proprietor of the strawber-schnell, the proprietor of and rushes of linked chariots over and greater than all. COLEGROVE,

Prescott, Ark., June 19, 1883.

#### and Seedsmen. (Mr. J. C. Plumb, of Milton, Wiscon-

sin, was in attendance at the late meeting of this association in St. Louis, and thus writes home to his paper, the Western Farmer, published at Madison, Wis.)

The eighth annual meeting of this association was held June 20th to 23d in St.

nursery stock, except peach and grape

more southern trees, and not wanting in beautiful natives.

Peter Henderson, of New York, furnished a paper on the formation and renovation of lawns. Geo. W. Campbell, of Ohio, read a valuable paper on desirable varieties of old and new grapes. General discussion followed these papers, and the numerous questions brought up, but business and social converse absorbed much of the time.

This association adouted resolutions

This convention in all its details, was most admirably managed by Col. Colman, and as the next annual meeting is to be held in Chicago, it remains for the new president, Mr. Hunt, of the firm of Miller & Hunt, of Chicago, to secure as much local attention to the growing body of nurserymen, seedsmen and florists, who will meet there in still larger numbers next year.

#### Another Danger to Strawberries.

Wm. Trelease, of the Wisconsin Horticultural Society, reports to the New York *Tribune* a new assailant of the strawberry, of which he says:

"The leaves of the wild strawberry are "The leaves of the wild strawberry are often discolored by one or more reddishpurple blotches, usually one-eighth to 
one-quarter inch in diameter, with a 
brown or white dead center. Similar 
spots are not uncommon on the leaves of 
some varieties of cultivated berries. As 
a general thing they are not so numerous 
as to injure the plant seriously, though, 
in common with all diseased conditions 
of the leaf, they weaken it in proportion in common with all diseased conditions of the leaf, they weaken it in proportion to their abundance. Last August, strawberry leaves very badly discolored were received from Mr. Wm. S. Trowbridge, of Milwaukee, with the statement that his entire berry patch was threatened with extermination, the disease having appeared in a virulent form and rapidly spread. An examination with the missing a property of the missing statement with the missing statement with the missing statement. appeared in a virulent form and rapidly spread. An examination with the microscope showed that the plants, like those about Madison and other parts of the country, were suffering from the attacks of a parasitic fungus, which was growing luxuriantly in the diseased leaftissues. At the time of examination it was fruiting freely, the threads of which it consists emerging in Infix through the

and knows how to do things of this sortight. There is not a weed in his patch. He mulched between the rows with straw. Many varieties were not yet in prime order when I was there, but the later ones promise well.

He had calculated on getting ten thousand quarts, but the frost in May cut them considerably, so that they may fail short of his calculation. Since then he has written that he is shipping about ten crates (60 gallons) of berries daily. He had so considerable ground in raspberries which look well. So much for a place where they said strawberries would not grow.

S. MILLER.

Biuffton, Mo.

S. Miller.

Tomato Raising in Arkansas.

Last night, at 60 clock, we sat in our domicile's rear, and looked! What a glory of God our eyes beheld! Speechless and fair, sat the round moon in the blue heaven. But north! Ah, there was a spectacle for you. In vast heaps and layers were piled up the vapor-banks of thunder and storm. Here were the convoluted Alps of darkness, and how the light footed lightning reveled in the grand play ground! It flashed and and unrestrai

after be regarded as the best fruit State in the Union. Its reputation for produc-ing grapes, peaches, and the various small fruits is well established. The wine made from Missouri grapes is equal to that manufactured in any country this side of Hungary. Missouri pears are nearly as fair as those produced in California, and are of a much finer flavor. Missouri apples are at least as fully appreciated. For many years they had preciated. For many years they had only a local reputation. Last year they became known in many parts of the world. They reached both the Atlantic world. They reached both the Atlantic and Pacific coast, and gave excellent satisfaction; wherever they were sold. Large quantities of them were sent to Canada, where they were shipped to England and Scotland, and sold as Canada apples, which had an excellent reputation. They endured transportation well, and kept a long time in good condition. The reputation they gained last year will insure ready sales in the future. The soil and climate of in the future. The soil and climate of Missouri are both very favorable for fruit. The abundant forests afford abundant protection against the winds that do so much damage to fruit trees in prairie States. The facilities for making good cellars for preserving the fruit are unsur-passed by any State in the Union. With the present facilities for transportation the fruit can be sent by rail or by boat to

and in the wood, price tricle pies for executing their name in masses, or consecution. This association adopted resolution is the interest of the mixed and the security of the properties of th

It costs so much to test different varieties of fruits, especially those that are long in coming into bearing, that average farmers cannot afford to do much of it. The safe rule is to plant the sorts it. The safe rule is to plant the sorts that have been found productive and good, and only adopt novelties on the assurance of nurserymen in whom the buyer has implicit confidence.

Tree Labels.

The kind we have used for many years is made of strips of zinc, six inches long, a third of an inch wide at one end and two-thirds at the other. The name is written on the wide end with a common lead pencil, and the label is attached to the tree in a second or two, making one or two coils of the narrow end around a small side branch, the portion with the name on hanging down in full view. The names will last half a century; we have seen them as distinct as at first after names will last half a century; we have seen them as distinct as at first after thirty years. The coiled zinc will yield as the tree grows, and neither come off n r cut the limb. We repeat the mention of the matter, as some of our best journals appear not to know the labels. The American Journal of Forestry describes a zinc label hung by a wire, which is more complex, often wearing off by wind, and as often cutting into the bark, the name being written with corre-

capabilities of the plant to perfectly mature it. The evils of overcropping are not confined to the crop on hand, but it exerts a baneful influence on the following crop. Thus two crops, at least, are placed in jeopardy. The habit of having a bearing year alternating with a barren year in apple orchards is wholly due to excessive crops. Such a thing is not known where the trees are attended to in the matter of removing expressions. not known where the trees are attended to in the matter of removing extra fruits where they are too numerous for the energies of the plant. Of course, thinning an apple, pear or peach orchard is no triffing operation; it involves much expense, but it is simply a question of profit or loss, and those who practice it once continue it, showing that it is highly profitable. No fruit suffers more from an excess of crop than the grape. It is a safe rule not to allow more than one bunch to remain on each shoot. The peach, too, is strikingly injured by over-cropping, and it has been proved that an expenditure of \$400 in thinning a 10-acre peach orchard has paid well.

#### Transplanting Sweet Potatoes.

The following excellent directions for The following excellent directions for resetting plants are from the Practical Farmer: "When the ground is ready let one person with a dibber walk along and puncture the holes for the plants fifteen inches apart. He can do it standing nearly erect almost as fast as he can walk. Let a boy follow with a watering pot of water with the nose off, putting in two or three tablespoonfuls to each hole, then drop the plants from a pan with an then drop the plants from a pan with an inch of water in which the roots are set before dropping. The setter follows, pressing the bottom of the plant firmly and covering with dry soil. We set reand covering with dry soil. We set regardless of sun and do not lose one plant in a hundred. Tomatoes are set in the same way except the plants stand four feet apart in check rows. It is mere carelessness to have plants die. This precaution will save any small plants set in hot weather. The extra labor is not worth naming, as it is less than to reset one plant in twenty-five."

Injury to Grape Vines. Dr. S. D. Philbrick, of Des Moines, who is one of our most successful fruit growers, has been making a careful ex-amination of his vineyard, and finds a large white grub has been working in the roots. He has shown us samples of the main stock of the vine taken from

species can be developed in the potatoe by exposure to the sun. Farmers should, therefore, be careful in the use they make of these which have turned green by being wholly or partially uncovered in the field. They should be planted deep enough so that none will grow out of the ground, or the hill should be made high enough to keep them all covered. For the same reason, grocers should not keep their stock of potatoes exposed on the sidewalk for several days exposed on the sidewalk for several days a time, as is the custom with many of them.

best time being autumn or early winter. Nitrate of soda should be applied as a top dressing early in spring; its effects will be seen in the first season only.

quickly as possible after it is made, the

will be seen in the first season only. Ammonia salt, guano, dung, etc., are best applied to heavy land in autumn or winter, either before the seed is sown, or after the plant is fairly above ground; but in the case of light land early in spring. The effect of bones in the various forms of dissolved bones, bone dust, raw bones, etc., will last two or more seasons, according to the quantities used and their respective solubility. Lastly, the presence of lime is essential to the economical use of manure. economical use of manure.

The American Agriculturist says: There are five methods in which Persian insect The American which is more complex, often wearing which is more complex, often wearing off by wind, and as often cutting into the bark, the name being written with corrosive ink, or with a lead pencil, which the integration of the powder in the powder in

ways brings the highest prices. A good article in a poor, bally constructed and slovenly packed package will bring no more than that which is inferior. Have your packages on hand in time, and don't ship so that consignments will arrive at destination on Saturdays or Sundays. Always make your shipments at night.

Always make your shipments at night.

In conversation a few days since a most successful fruit-grower said that "many apple trees are set too close together; two rods apart is near enough." The land for an orchard must be kept in good condition. He top-dressed his orchard once in three years, principally with a thick coating of straw. He allows hogs to run in his orchards, and plows the land until the trees are so large as to interfere with such a practice. Last year he picked forty-five barrels of greenings from four trees. Orchards thrive best near bodies of water. Trees should be judiciously trimmed while young. Many trees are injured by overpruning. Trees should be grafted when they are from one inch to one and one-half inch in diameter.—Ex.

# AYER'SPILLS.

A large proportion of the diseases which cause human suffering result from derangement of the stomach, bowels, and liver. April of Arthartic Fills act directly upon these organs, and are estimated by the control of t

A NOTED BUT UNTITLED WOMAN.



Mesers, Editors:—

The above is a good likeness of Mrs. Lydia E. Pinkham, of Lynn, Mass., who above all other human beings may be truthfully called the "Dear Friend of Woman," as some of her correspondents love to call her. Sha is sealously devoted to her work, which is the outcome of a life-study, and is obliged to keep six lady assistants, to help her answer the large correspondence which daily pours in upon her, each bearing its special burden of suffering, or joy at release from it. Her Vegetable Compound is a medicine for good and not evil purposes. I have personally investigated it and am satisfied of the truth of this.

On account of its proven merita, it is recommended and prescribed by the best physicians in the country. One says: "It works like a charm and saves much pain. It will cure entirely the worst form of falling of the uterus, Leucorrheas, irregular and painful Menstrustion, all Ovarian Troubles, Inflammation and Ulceration, Floodings, all Displacements and the consequent spinal weakness, and is especially adapted to the Change of Life."

It permeates every portion of the system, and gives new life and vigor. It removes faintness, flatulency, destroys all craving for stimulants, and relieves weakness of the stomach. It cures Bloating, Headaches, Nervous Prostration, General Debility, Sleeplessness, Depression and Indigeotion. That feeling of bearing down, causing pain, weight and backache, is always permanently cured by its use. It will at all times, and under all circumstances, act in harmony with the law that governs the female system.

It costs only \$\frac{1}{2}\$, per less only \$\frac{1}{2}\$, and is sold by

that governs the female system.

It costs only \$1. per bottle or six for \$5., and is sold by

It costs only \$1, per bottle or six for \$5., and is sold by druggists. Any advice required as to special cases, and the names of many who have been restored to perfect health by the use of the Vegetable Compound, can be obtained by addressing Mrs. P., with stamp for reply, at her home in Lynn, Mass.

For Kidney Complaint of either sex this compound is unsurpassed as abundant testimonials show.

"Mrs. Pinkham's Liver Fills," says one writer, "are the best in the sord if or the cure of Constipation, Billousness and Torpidity of the liver. Her Blood Purifier works wonders in its special line and bids fair to equal the Compound in its popularity.

All must respect her as an Angel of Mercy whose sole ambition is to do good to others.

Philadelphia, Fa. (2) Mrs. A. M. D.

If your grocer or druggist does not keep it we will send a sample pound postpaid on re-ceipt of price, except Aqua-Vitae and Auti-Ferment which are put up in bottles.

Farmward! manure, in order to be most beneficial, should be applied as free. E. I. C. Co., 281 Canal Street N. Y.

# DARBYS Prophylactic Fluid.

theria, Scarrer Ferry, Malaria, etc. The free use of the Fluid will do more to ar-rest and cure these diseases than any known

## DARBYS PROPHYLACTIC FLUID,

Aiso, as a Gargle for the Throat. As a Wash for the Person; And as a Disinfec-tant for the House.

tabliorithe House.

A CERTAIN REMEDY AGAINST ALL CONTRAINCE TAGIOUS DISEASES.

It neutralizes at once all noxious odors and gases. Destroys the germs of disease and septic (putrescent) floating imperceptible in the air, or such as have effected a lodgement in the throat or on the person.

A certain remedy against all contagious cases.

ases. Perfectly Harmless, used Externally or In-

J. H. ZELIN & CO., Proprietors.
MANUFACTURING CHEMISTS, PHILA
Price, 50c per bottle; pint bottles, \$1.

#### Vital Questions.

Ask the most eminent physician
Of any school, what is the best thing in the
world for quieting and allaying all irritation
of the nerves and curing all forms of nervous
complaints, giving natural, childlike, refreshing sleep always?
And they will tell you unhesitatingly
"Some form of Hops!"
Ask any or all of the most eminent physiclans:

Ask thy or into the incomplete what can is ans:

"What is the best and only remedy that can be relied on to cure all diseases of the kidneys and urinary organs; such as Bright's disease, diabetes, retention or inability to retain urine, and all the diseases and allments peculiar to Women"—
"And they will tell you explicitly and emphatically "Jacuhu."
Ask the same physicians

phatically "Suchu."
Ask the same physicians
"What is the most reliable and surest cure
for all liver diseases or dyspepsin; constipation, indigestion, biliousness, malarial fever,
ague, &c. 'nad they will tell you:
Mandrake! or Pandeiion!"
Hence, when these remedies are combined
with others equally valuable
And compounded into Hop Bitters, such a
[Concluded next week.]



Re-invigorates the System, PRE-VENTS and CURES Chills, Fevers, Dyspepsia, Summer, Female, and Liver Disorders. Recommended by best physicians.

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A regular graduate of two medical colleges,
has been longer engaged in the Chronic,
Nervous, Skin and Blood Diseases than any
other physician in St. Louis, as city paper
show and all old residents know.
Nervous Prostration, Debility, Mental and
Physical Weakness, Mercurial and other
affections of the Throat, Skin and Bones,
Blood Impurities and Blood Poisoning, Skin
Affections, Old Sores and Ulcers, Impediments
to Marriage, Rheumatism, Piles. Especial
attention to causes from overworked brain.
Consultation at office, or by mail, free and
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nothing. When it is inconvenient to visit the
city for treatment medicines can be sent by
mail or express everywhere. Curable cases
guaranteed; where doubt exists it is frankly
stated. Office hours, 9 a. m. to 7 p. m.; Sundays, 12 m. to 1 p. m. Pamphlets free.

## MARRIAGE CUIDE 260 PAGES. FINE PLATES.

Elegant cloth and gilt binding. Sealed for 50c in postage or currency. Over fifty wonderful pen pictures, true to life; articles on the following subjects: Who may marry; why not, why? Proper age to marry. Who marry first. Manhood; womanhood. Physical decay Who should marry. How life and happiness may be increased. Those married or contemplating marrying should read. It ought to be read by all adult persons, then kept under lock and key. Fopular edition, same as above, with paper cover and 200 pages, 25 cents by mail, in money or postage.



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All persons say their poods are the best. We ask you to examine our Improved Keller Positive Fever Feed, Graha, Steed and Fertillating Brill and our Hay Rakes. They are as good as the best, and can be sold as cheap. Allare warranted, Circulars mailed free. Nowark Machine Co-Nowark Ohlo. Eastern Branch House, flagertown, Machine Co-Nowark, Ohlo. Eastern Branch House, flagertown, Machine Royal Research (1998).

E. M. BIRDELL & CO., General Agents fo Southern Illinois and Missouri, 316 South 8th Street, St. Louis, Mo.

AGENTS WANTED to sell DR. CHASE'S 2000 RECIPE BOOK. Sells at sight. For further in formation, address Dr. Chase's Printing House, Ann Arbor, Mich.

# COLMAN'S RURAL WORLD

THIRTY-SIXTH YEAR.

BY NORMAN J. COLMAN.

PUBLISHED WEEKLY AT

## ONE DOLLAR PER YEAR.

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(Advertisers will find the RURAL WORLD of of the best advertising mediums of its class in the country. This is the uniform testimony of all who have given it a trial. Many of our largest advertising patrons have used it for more than a quarter of a century, which is the highest possible recommendation of its value as an advertising medium.

READERS of the RURAL WORLD, writ ing to or calling upon any one advertising in our columns, will do us a favor if they will say they saw the advertisement in this paper.

On and after October 1st, 1883, letter postage will be two cents for each half unce or fractional part thereof between all points of the United States. The rate will then be the same on drop letters and all others. No changes have been made in rates on other classes of matter.

THE premium list of the forthcoming or twenty-third annual St. Louis Fair, has been issued and may be had by addressing the Secretary, Festus J. Wade, St. Louis.

THE heavy shipments of watermelon to this market the past few weeks furnished some valuable experience to shippers, but at a ruinous expense. The net proceeds for many of the Georgia shippers was most discouraging. Many of the cars used were about air-tight lacking the very important element of ventilation so essential to success in shipping melons such long distances.

GRAPES appeared frequently in the St. Louis market a month ago, but during the past few weeks, the markets have been entirely barren of this attractive fruit, Whether it is owing to a failure of the crop in the South, or to the indifference of growers, does not appear, but certain it is that inviting prices can be had here at present. Alabama made several shipments in the early part of the season and later Texas made a few ship-

St. Louis is a great tomato market. nearly every family being a customer when prices are at all reasonable. To supply this wide demand, half a dozen states contribute-Texas, Alabama, Mississippi, Louisiana and Arkansas tomamatoes have been offered at once, and now the bulk of the shipments come from Arkansas and Southern Illinois The producers further South are crowded out. The growers in this vicinity, or at least a number of them, began bringing in tomatoes two to three weeks ago surprising the rSouthern friends as com petitors unusually early.

It is probable that a very large amount of buckwheat will be raised this year on account of the short wheat crop. Farmers would, we think, usually find it advantageous to raise a large crop of buckwheat each year, as it is easily raised and always commands a good price, while it does not require the richest soil. The soil should, however, be well pulverized, and with this condition provided there need be little apprehension of failure. Perhaps no crop gives quicker returns of equal value and with as little special care and labor, while none leaves the ground in better condition for succeeding crops.

THE Wild Goose plum is evidently receiving a good deal of attention at the hands of fruit growers. With the exception of apples, no other fruit has been so abundant in the St. Louis market the past few weeks. Arkansas began with liberal consignments a month ago, later Tennessee followed, and still ships; and tion of apples, no other fruit has been so Tennessee followed, and still ships; and now southern Illinois is forwarding large quantities. Prices throughout have been very remunerative, and will serve to stimulate further cultivation of this excellent plum. Arkansas shipped the largest and finest specimens offered here this season, some of them selling at \$1.70 per box, while \$1 was the average price so far this season.

THE Southern Exposition which opens at Louisville, Kentucky, on August 1st, gives promise of being a remarkably successful affair. The buildings erected for the occasion are on a magnificent scale, and are now complete and 'the space being occupied by exhibits. A letter from the general managers states the following facts tend to establish. First one of our fruit-growers divided his shipment between St. Louis and Kansas City—berries picked from same patch, by same pickers and shipped same day. The sales reported from St. Louis were \$3.00 per case, from Kansas City \$5.50 at Louisville, Kentucky, on August 1st, ter from the general manager states that the applications for space already filed insure an exposition so complete as to satisfy the most exacting, and every day is adding so largely to the list that the question of space is a serious problem. This, then, gives promise that the Louisville exposition will equal if not surpass
anything of the kind heretofore seen in
this country; that the products of our
fields and our mines, our work shops and
manufactories, from ocean to ocean, will
be aggregated in that magnificent series
of buildings, and that hundreds of them.

I have several cases of this kind which of buildings, and that hundreds of thousands of people from at home and abroad will be there to see it. /

#### DEATH OF DR. JOHN A. WARDER.

The telegreph informs us of the death of Dr. John A. Warder, of North Bend, Ind., on the 14th inst., in the 72nd year of his age. His malady was paralysis. Dr. Warder was widely known for his labors in behalf of horticulture, in its widest signification. For half a century he has been devoted, heart and soul, to the advancement of the horticultural interest of the West, and we might say of the nation. No horticultural, pomological or forestry convention was complete without his presence. He was considered the highest authority, and his power of observation had been so close, his memory so exact, his opportunities and travels so extended that his knowledge was almost complete, and yet, to the day of his death, he was a close observer and constant student. It was only a year or two ago that we took quite a lengthy railroad ride with him, and he was constantly looking out of the window watching, with the greatest interest, the various species and varieties of trees, shrubs, plants and flowers which we were passing. His conversation in regard to them was full of interest to us, and we hoped he might be spared many years vet to impart the knowledge he was daily equiring.

The subject in which he took greatest nterest of late years was that of forestry, and he never tired of talking of its importance to the nation. He said this generation did not appreciate its impor-

ance, but the next generation will. Dr. Warder was the author of a numper of valuable treatises, and of essays, addresses, etc., almost without number. His treatise on Pomology was considered standard authority. His book on Evergreens had a large sale. All of his writngs gave evidence of the highest scientific knowledge. He wrote with great care, being very cautious not to mislead. Everybody who knew him was his friend. He was the most unselfish man we ever knew, always forgetting self and working for the good of the public. He was exceedingly kind to the young, giving them aid and encouragement wherever he could, and they became his devoted friends. The friends of ho: ticulture will everywhere mourn his death. They have lost a friend, adviser and instructor. A great philanthropist has gone to his rest.

#### "SOFT AND SANDY."

EDITOR OF THE RURAL WORLD: In late issue of your paper I noticed the following:

"The Arkansas fruit-growers are nanifesting in various ways their dissatisfaction with the St. Louis commission merchants. In fact, some of them have gone far enough to announce in print, in a St. Louis paper, that the St. Louis merchants have formed a combination to fleece them to enrich themselves at the expense of the shipper. The shippers, or at least a large portion of them. in a St. Louis paper, that the St. Louis pers, or at least a large portion of them, regard the commission of ten per cent. too high and think the receivers ought o do well at 5 per cent." I do not quote the balance of your article, for, in the most part of it, I am in full accord, but have quoted the above for the purpose of correcting your misunderstanding of the matter at issue between the shippers of and fruit-growers of Beebe, and the commission merchants of St. Louis.

That you may be fully apprised of my neans of information, I beg leave to say, hat you may be fully apprised of my ans of information, I beg leave to say, tf am the corresponding secretary of fruit-growers' association, of White muty, Arkansas, and have seen I read a large number of returns made of sales of fruits the commission merchants of St. Louis are reported "soft and sandy" that the commission merchants of St. Derhaps the St. Louis merchants have large. Bloomington, Denver, and icago. Bloomington, Denver, and ica hat I am the corresponding secretary of he fruit-growers' association, of White by the commission merchants of St. Louis, Kansas City, Omaha, Des Moines, Chicago, Bloomington, Denver, and other points to which members of the association have made abhaves of the soil; but I will say to the soil; but I will say to the soil; a sandy association have made shipments, and when I assert anything as a fact, I do it from the record, and when I express an opinion let it be taken as an opinion for

what it is worth—nothing more.

First then, I desire to say that you are entirely wrong in asserting that "the shippers regard the commission of ten per cent as two high." I have attended all of the meetings of the association and never heard a word of disatisfaction expressed on account of the commission. did ship to points beyond and obtained an advance of from 50 to 100 per cent above that reported to the shipper and grower of the fruit.

grower of the fruit.

From this fact, and the fact of the almost uniform price reported, for all fruits received in good order, the shippers became satisfied that there was a combination, or understanding as to what the price should be for each day, and that the price was fixed low enough to give the commission merchant a good big per cent. on shipments.

cent. on shipments.

That such was the case the following per case. On the same day, and arriv-ing at Kansas City at the same time. were berries re-shipped from St. Louis. Now, the shipper here inquires, "if my berries were shipped from St. Louis at \$8.00 per case, how is it that those shipped by me unto Kansas City sell for \$5.50 per case? Would not the fact that the same quality of berries could be

will be reported in due time.

No one doubts the right of the commis sion merchant if he assumes the risk in-

cident to re-shipment, that he should receive pay for such risk, but it is a question, if by combination, or otherwise, he makes the price in St. Louis \$3, whether he is entitled to the whole of the \$2.50 advance obtained at Kansas City; but when the berries reported "soft and sandy" in St. Louis arrive at Kansas City and you in St. Louis arrive at Kansas City had generally sandy" in St. Louis arrive at Kansas City. sandy" in St. Louis arrive at Kansas City and at other points in "good ore'er," we of Beebe, who are new in the business, are at a loss to conjecture how, or by what process the berries were hardened and divested of their sand in their transit from St. Louis to other points from one to two hundred miles beyond. If it be a fact, which the returns show, that berries are hardened and cleaned in their transit beyond St. Louis, would it not be well for the Arkansas producers, who are new in the business, to take counsel well for the Arkansas producers, who are new in the business, to take counsel from what they know, and ship to points beyond St. Louis, until they have learned "from older and wiser heads" how to se-cure justice from St. Louis commission Having said this much, in relation to

your editorial, I beg to say a few words in reply to the statements of Mr. P. M. Kiely, to be found in the Post-Dispatch of the 12th inst. Mr. Kiely starts out with the assertion that "there is not a varied of the the starts of the starts o particle of truth in the statement of that Arkansas man, whoever he may be," I will inquire if he realizes the extent of his assertion? How does he know whether his assertion? How does he know whether the fruit growers of Arkansas will give St. Louis the go-by or not? Is he prespend to say that no part of the fruit grown in White county goes to points beyond St. Louis? Does he know from intuition, or otherwise, that the shippers of Beebe do not entertain the belief that the commission merchants have adopted a plan by which they sell mostly all to themselves at a low figure and reship to more distant points at an advance of from 50 to 100 per cent.? Does he know that the identical berries reported "soft" (Chicago when one sold for \$4025, and that the identical berries reported "soft and sandy" in St. Louis were re-shipped to other points and arrived in "good order?" Does he know that a lot of the same berries, picked on the same day and shipped in two lots, were not report-ed "soft and sandy" by one commission merchant, and sold for \$1.50 per case, and the other lot was reported "in good order" and sold for \$3.50 by another commission merchant? If he knows all these things, how does he know them; and if he does not know them, by what evidence does he brand my statement as being without a particle of truth? So much for Mr. Kiely. I may review his statements at another time.

As to that "member of the commission house of Gerber & Signaigo," who expressed himself in very decided language as to my statements, I have to say, that from close observation of men for more than forty years. I have learned that a man habitually addicted to any fault, is most certain to think he discovers the same fault in others upon first introduction—no wonder he supposed I was drunk when I made my statement to the

Post-Dispatch.
In conclusion, Mr. Editor, I desire to say, if you will look over the market re-ports, you will find that for from thirteen to seventeen days of each season, the strawberries from Arkansus command the highest price. Then comes the berries from Missouri and southern Illinois. By this time berries have become plenty and the price has become regulated, hence these late shippers find no reason to complain, but the Arkansas man who ment brought \$13 per case. Neither is it fair to institute a comparison of quality between our late shipping berries and the best and carliest shipped from Cobden, III. The cream of our berries is gone before the Cobden berries is gone before the Cobden berries come in, hence our poorest berries have to compete with the best from Cobden.

I will add that our growers, notwith-

standing their newness in the business, are as capable of discerning a grain of sand as most other persons, the com-mission men of St. Louis not excepted, and while in the very nature of things all

somebody's report that this is a sandy soil; but I will say to them that the soil about Beebe is not sandy, it is more of a clay than sandy soil; but fat the same time as good a soil for ratising most varieties of strawberries to be found in Arkansas or elsewhere.

A FRUIT GROWER. Beebe, Ark., July 17th, 1883.

# Che Cattle Pard.

Coming Sales.

July 23 .- The Hamiltons, Lexington, Ky. July 24.—Estill and Hamilton, Lexing-

ton, Ky.
July 25.—J. V. Grigsby and Robinson
Bros., Winchester, Ky.
July 26.—B. A. and J. T. Tracy, and
W. D. Thompson, Winchester, Ky.
July 27.—Col. Wm. M. Irvine, Rich-

mond, Ky.
Oct. 17.—Will R. King, Marshall, Mo.
Oct. 24.—Thq. Bates, Higginsville, Mo.

## Next Week's Kentucky Shorthorn Sales.

grass counties of Kentucky, commencing on Monday, 23rd inst., and continuing until Friday the 27th, and so arranged as that all may be followed on consecutive days without having far to travel, and without the least inconvenience. They are arranged to come off and succeed each other in the following order:

J. C. & George Hamilton, sale at Lexington, Monday. July 23.Hamilton & Estill, sale at Lexington, Tuesday, July, 24.

J. V. Grigsby and Robinson Bros., sale at Winchester, Wednesday, July 25. B. A. & J. T. Tracy, sale at Winchester, Thursday, July 26. W. M. Irvine, sale at Richmond, Friday,

We last week made additional reference

These gentlemen are two of the largest breeders in Kentucky, having generally a herd of from five to six hundred head, mong which are many of the best bred

reeding animals in the country.

The Flat Creek farm, located about our miles from Mount Sterling, embraes about 3,000 acres of magnificent land, of which by far the largest portion is in permanent pasture. Like most of the and in the blue grass country, it is peautifully undulating, covered here and there with an adundance of forest trees, and plentifully supplied with running streams of clear, cool, and refreshing water, of which one of the chief is Flat Creek, from which the farm and herd take their name.

take their name,
Here the Hamiltons have lived since
long before theiwar, and during those many
years have built up the greatest herd of
shorthorn caute to be found either in the eastern or western hemisphere. from this and their numerous subsidiary herds that sales of hundreds of animals have been semi-annually made for years past at Kansas City, Mo., Chicago, Council Bluffs, Kentucky, and elsewhere; and it is safe to say that more animals from their sales are distributed over the West than from any half-dozen others.

paid for two hellers at the late sale at Chicago when one sold for \$4025, and another at \$4000, and their Marys and Phylisses have always commanded very high prices whenever offered for sale. They will on the 23rd July, the open-

They will on the 23rd July, the opening day of the series, sell 50 head. This will be at Lexington, and we have no doubt will be a desirable lot of cat

#### ESTILL AND HAMILTON.

On the next day, and at the same place, this firm composed of Major Robert C. Estill L. A. and Hamilton, both of whose farms are within a few miles of Lexington, will offer about 60 head from the following families. the following familles:

Renick Roses of Sharon, Flat Creek Marys, Josephines, Gentle Anuie Phylises, Goodnesses, &c. These cattle are the get of the Bates and Rose of Sharon neget of the Bates and Rose of Sharon ulls 4th Duke of Geneva, Grand Duke of Geneva, Barrington Duke, Barrington Duke 3d, 14th Duke of Sharon, Duke Ranock and 3d Duke of Flat Creek, and embrace the entire, partnership herd. embrace the entire partnership herd. These cattle are young, healthy, regular breeders, mostly red and good individ-

Major Estill is perhaps not so well known to our readers as his partner, Archie Hamilton, but he is a man of the highest reputation and the very best character. He comes from one of the best families in Kentucky, inherits a splendid farm of over a thousand acres. about five mile from Lexington, and is foremost in every

you work in Fayette county.

A. L. Hamilton is known to everybody as the active, energetic manager of the business of the Hamilton have been been seen as manager of the business of the framitions wherever they have had sales, whether at home or abroad; a man of unbounded vim, splendid business capacity, and one of the most enterprising men in the Short-horn business. No man in the business in this country is so well known, or that will command a arger attendance at the sale. In keeping with all the Kentucky breeders, he will welcome to his State and to all the sales bidders from a distance, and will aim to make their trip not only pleasurable and in a business sense prolitable, but in every respect agreeable. These men always welcome to their home strangers from a distance with the heartiest hospitality, hence the expense of the trip needs be but trilling. On Friday, the last day of the sales

dams and grand-dams. If not sold privately before, he will sell 50 head of highly bred Southdown sheep, also two blue-grass farms, one 200 acre tract, the other 300 acres.

## On Friday of last week as per previous

Gist in the city of Marshall to com-

managed, inured to the benefit of those concerned; and there is no reason to suppose the contrary will be the case in an old and well settled community like that under consideration, for the their interests are involved.

A great portion of the county is under grass and much of the remainder in a high state of cultivation, producing from fifty to seventy-five bushels of corn from fifty to seventy-nye busnets of corn to the acre; hence its capacity for feeding is unsurpassed, and immense droves of western and domestic cattle are annually finished on its magnificent pastures and thence shipped to market. There is no better jevidence of quality of soil than its capacity to produce blue grass and timothy, corn and wheat,

tobacco and hemp and, these are grown luxuriantly in Salme and have been for fifty years; hence the farmers are wealthy and surrounded by all that ample means usually represent, viz: educational facili-ties, refined social surroundings, church-es, society, fine' horses, good drives handsome ladies, brilliant equipages and stores full of the finest goods.

north and east of from 80 to 90 miles.

The Chicago and Alton railroad runs through it from east to west, touching Marshall, the county seat, and the Lexington and Sedalia branch of the Missouri Pacific through the southwest west corner, touching Brownsville, the next largest town. The shipping facilinext largest town. The shipping facili-ties, therefore, are ample, both by rail

and river.

Marshall, the county seat, is a flourishing city of about five thousand inhabi-tants, and will in the near future take its rank as a city of the third class. Just now, a new and elegant court house to take the place of one destroyed by fire, is approaching completion, and will, when finished, cost in the neighborhood of \$75,000. Gas works are now in course of erection, and water works under con

implation.

Before the war, the county was largely devoted to the cultivation of hemp and It is tobacco, for both of which the pre-eminently adapted, especially the latter, of which it produces, we were informed, a finer leaf than can be grown either in Kentucky or Virginia, hence it forms one of the principal industries of the county. Blue grass is indigenous to the soil, and grows most luxuriantly all over the county, affording abundant pasturage for the numerous herds of cattle distributed over the county, and with all these resources in the hands of the people, surely they have the best prospects for building up the finest stock business of any in the State.

#### THE MEETING.

THE MEETING.

At the meeting were the following gentlemen: N. J. Smith, J. A. Hawkins, G. R. McDaniel, Judge Robert Smith, J. D. Snelling, J. F. Burruss, A. C. Garrett, Mark Whittaker, P. G. Rea, R. K. Thompson, O. J. Ralph, J. T. Roades, Wm. J. Garrett, Peter Sheer, P. C. Storts, Geo. G. Hawkins, R. B. Thorpe, F. M. Kidd, T. C. Rainey, Will B. King, J. C.4Sanpington, Dr. Abram R. King, J. C. Sappington, Dr. Abram Neff, R. E. Richart, W. P. Davidson and Judge J. W. Sparks.

The meeting was a most cordial and

harmonious one, and after adopting a constitution and by-laws, elected Will R. King, President; R. E. Richart, Vice President, and T. C. Rainey Secretary and Treasurer. Every one present subscribed to the constitution and by-laws and paid their annual dues.

and paid their annual dues.

To Will R. King, the well known shorthorn breeder of Peabody near Marshall, the enterprising president, to Table 1. C. Rainey, the ever pushing and energetic secretary and treasurer, to Dr. Abram Neif of Arrowrock and R. E. Richart, much of the success of the association is attributable.

association is attributable.

At the meeting it was ascertained that about two-thirds of the breeders of the county were present, and that fully 500 head of registered stock was already owned in the county. Many of the facts and figures here given were obtained from Col. W. R. Gist, mayor of the city, a very energetic and intelligent gentleman, an attorney by profession, a Vir-ginian by birth, and a high-toned and representative man, worthy of the high position to which the citizens have called him. Now Saline county has set the example, which shall we hear from next?

COL. COLMAN: What ails Jewett? Does he imbibe too freely, or does he have bad spells, in which he has no rehave bad spells, in which he has no regard for his word, or does he find no sale lilies. Let me know as soon as possible about for the tin tags he brought from Vermont? Something is wrong, 20 cents for wool brings the wool growers down to business; they are now buying rams on their merit. They have tried those paper rams at big prices, to their sorrow. Large, strong-boned Missouri raised rams, when they are just as pure blood, suit them better. As for the barren ram McQuitty sold my son, he worked well, but got no lambs; I have been trying since the vinegar as pure as possible for pickles

in the open fields summer and winter, and in most instances he has bred their dams and grand-dams. If not sold privately before, he will sell 50 head of highly bred Southdown sheep, also two blue-grass farms, one 200 acre tract, the other 300 acres.

For catalogues address each at their respective postofilees. Lexington, Winchester and Richmond are all connected by railroads.

Saline County Shorthorn Breeders' Association.

On Evident of last week's since, I wrote Mr. McQuitty that if he would pay me \$70. I would return the ram. He gave no answer till he found a law suit was inevitable, then, June 27th, he accepted my offer. I was credibly informed that Mr. Jewett advised Mr. McQuitty to sell the ram to the lad, while it was understood by the sheep men on the ground that the reason why about the best ram at the 'shearing sold so low was that he was not sure, and Jewett shipped the ram to me from bis farm. If Mr. Jewett would be to change their local than the remove to a cool, dry apartment. The cask should always be left uncorked.

—Can any of your readers tell me what i nematter with the pigs. They get stupid and seem to have the thumps and finally die. They are generally affected the worst just be fore time to wear them. What can I do for the lad, while it was understood by the sheep men on the ground that the reason why about the best ram at the 'shearing sold so low was that he was not sure, and Jewett shipped the ram to me from bis farm. If Mr. Jewett wants more evidence I can be fore time to a cool, dry apartment. The ask should always be left uncorked.

—Can any of your readers tell me what i the menter with the pigs, should always be left uncorked.

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—Can any of your readers tell me what i the matter with the pigs. They get stupid and seem to have the thumps ask should always be left uncorked.

—Can any of your readers tell me what i the matter with the pigs. They get would always be left uncorked.

—Can an Mr. Jewett wants more evidence I can On Friday of last week as per previous announcement, twenty-five of the prominent breeders of Saline county, Missouri, oppose a sheep register if I believed it met in the office of Mayor Col. W. R. had been properly started and conducted; but when merit is left entirely out Gist in the city of Marshall to com-plete the organization of a county associ-ation having for its object the promo-of those had been miscrably neglected ation having for its object the promotion of their individual and collective interests, by concert of action and mutual effort.

Such associations have been formed in many counties in this and other states and have generally, when well managed, inured to the benefit of those had been miscrably neglected for years in their breeding, then I object. The sheep register is like the bankrupt law, good if every one was honest. It is too easy a matter to deceive, with it all registered sheep dies the tag is easily removed to another sheep. It has been claimed that this has been done, and who the wiser but the man that owns the flock? the wiser but the man that owns the flock? No man values line breeding higher than Next Week's Kentucky Shorthorn Sales.

Again we direct the attention of RURAL WORLD readers to the important series of sales, advertised in our last and previous issues, to come off in the blue the register had raised the value of their sheep greatly, while it had lowered the market value of those not registered, even if equally as good. But the light that has been poured on this subject, through the RURAL and other papers, has changed matters greatly. Sheep are now selling on their merits, as in days of old. I, last fall, paid McFadden \$175 for the papers and the papers of the papers. a ram not registered; he is cheap; could have bought registered rams from \$15 to \$18 by the car-load in Vermont.
Cotonel, I will tell you what ails Jewett. In the first place, Breckenridge

Jewett. In the first place, Breckenridge beat Sedalia, bad, in shearing rams last spring. Sedalia had but two rams that cut more than 25 lbs. Breckenridge had seven that went from 25 to 33 1-4/V It is true, they had one barren ewe that sheared 26 1-4 lbs, and her fleece scoured 6 lbs. I fail to see the sense in this 20 lbs of grease and dirt in one ewe's fleece. Another thing huns Jewett—Bothwell's

The county measures 42 miles from east to west and 35 from north to south, forms a promontory or bend in the Missouri river on which it has a frontage well's ram Bonanza beat Stubbs badly 60 ewe-lambs and ou ram-mins may can beat his lambs shearing next spring. One more point, that hurts bad—Bothwell's ram Bonanza beat Stubbs badly shearing, and can beat him next spring, at public shearing. O, I believe Stubbs is always sheared at home. is always sheared at home.

J. B. BOTHWELL. P. S.—Since writing the above I have a letter from Mr. McQuitty, stating he would not swear that the ram ever got any lambs. Do men buy rams at \$125 and keep them two years and not know whether they breed or not? whether they breed or not?

Attention is called to the advertisement Attention is carred to the advertisement in this issue of the great sale of Shorthorn cattle to be held at Dexter Park, Chicago, Ills., Aug. 16th, under the auspices of Col. J. W. Judy, the well known auctioneer.

# Aotes-Correspondence.

—The first lot of new wheat was received to-day, and was sold at eighty cents. We are having lots of rain—D. J. McM., Watkins Mo. -Another new Ohio enterprise booming. The Newark Machine Company have completed their new brick factory and are working 200 men in the building of their Celebrated Victor Clover Hullers, Grain Drills, Hay Rakes, Fan-

ning Mills, etc. -- Ex-Surgeon-General Hammond is to grapple with the Woman Question in the next number of the North American Review. He will undertake to show that woman is unfit-ted for equal participation with men in public affairs not only by her smaller brain ca-

pacity, but also by the peculiarities of her nervous organization. -I am a subscriber to your valuable paper, and consider it the best I ever saw. It makes the heart glad every week. We have a tolerably good apple crop, but no peaches or peas. The white winter Pearmain trees are heavily loaded with fruit. I have tried all summer to get me a budding knife, but in vain, can you direct me !- H. T., Rosendale Mo ...... Write the Michel Plant and Seed Co., St. Louis, or the Plant Seed Co., St. Louis.

-Can you inform me where I can purchase a Southdown ram? I see none advertised in the Rural World. Wheat only half a crop in Franklin County; grass and oats good; orn promising a good crop. Fruit with us is a failure, peaches are all wrong, Amsdens
June all rotted on the trees.—W. M., Union,
Mo......Address Samuel E. Prather, Springfield, Ill., on the ram question

-Builders, or parties contemplating building, desiring mantels, grates, summer pieces Fire-proof Roofs, mixed paints, etc., (if they mention this paper,) can obtain a book of designs and full particulars by writing or calling on N. Y. Slate Roofing Co., 127 Church St., Phila., Pa. These goods are of their own manufacture; and the best as well as the lowest priced in the market, are for sale in all Cities. Why not write at once for an estimate?

-There is a party of immigrants in this country that are coming West in the fall, and they talk of going to Kensas, where they can get Government land free. I told them there is as good land in Missouri as there is in the West. Let me know what counties in Missouri a person can get it and on what terms Do you give so much to the head of every it, as they speak very favorably of your State.

—Alex. H. K., Elkton Va......Address Government Land Agent, Boonville, Mo., or Springfield, Mo.

paper and like it; it suits me, is full of information and every number up to par. I wish to ascertain how to put up cucumbers by the barrel, also how to turn cider into vinegar. Have a number of barrels now out in the sun, but it does not turn to vinegar; have also some wine in the same fix. I want to have December to get McQuitty for I have about an acre growing .- M. B., egar, to three gallons of pure cider add one gallon of soft water, well sweetened with mo lasses, and expose to the sun or warm air till the acetic fermentation is nearly complete

> tion and feed at once, and to give them a mixture composed of sulphur, salt and wood ashes, say one pound of the former to two each of the latter. Let them have an abundance of pasture, or if confined, green food. Keep them off low, wet land or lots, let them have none but pure water and good shelter.

## ummer Cooking Stoves.

Gasoline, as a fuel for cooking, has become a settled fact. It is cheaper than coal or wood, and the amount of labor saved to the house-wife is almost beyond belief. No one can realize the comfort and convenience of a gasoline stove, until he has tried Whorf's Patent Perfect Baking oven. This oven has been recently invented and patented by Charles F. Whorf, 1014 Washington ave., St Louis. It is the most perfect oven in use. It surpasses anyistove oven in the perfect work it does, and does it quicker, with less atten tion. This oven will do what no other oven can do; namely, brown equally top and bottom. The reason of this is that the mechansm of this oven is so arranged that the heat is supplied equally to the top and bottom of the food being cooked. The principle in-volved and carried out in this oven, has never been applied to any other oven, and the result of this principle is a perfect baking

We speak from experience with this oven, and feel safe in saying if any one wants to have perfectly baked food, or roast meat, get this oven. Mr. Whorf informs us that the demand is increasing very rapidly and the trade is taking hold of it and supplying their cus-tomers who will not be satisfied with any

lambs that ext spring.

pad—Both
ubbs badly

ext spring,

eve Stubbs

1883.

HWELL. stating he stating he n ever got us at \$125 not know

of Short-xter Park, under the , the well

idence.

as received nts. We are Vatkins Mo. ooming. The completed working 200 rated Victor Rakes, Fan-

nd is to grap-in the next Review. He can is unfit-nen in pub-r brain ca-cities of her aluable pa-

ver saw. It k. We have t no peaches rmain trees have tried knife, but in Rosendale. nd Seed Co., st. Louis.

in purchase lvertised in half a crop oats good; nit with us g, Amsdens M., Union, her, Springating build-omer pieces, te., (if they

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ves has become han coal or eaved to the lief. No one venience of a ried Whorf's

his oven has batented by con ave., St. en in use. It perfect work a less atten-top and hottop and bot-the mechan-hat the heat ad bottom of principle in-ren, has nev-ren, and the feet baking

th this oven, one wants to east meat, get s that the de-and the trade ag their cus-ed with any gasoline as a n the days of largely done applied to al-Those want d address or Washington

have none to spare. Sorghum not much planted, looks poor, too much grass.—Uncle John, Southern Illinois.

# The Horseman.

of Dolly, by Mambrino Chief, thus giving Edwin Thorne two close crosses of such trotting blood as produced a Lady Thorne (2.18%), while the dams of both were granddaughters of old Andrew Jackson, the fastest trotting stallion of his day. He was foaled in 1852, and died in 1855, hence his opportunities in the stad were very limited; yet he got several fast trotters, including Goldsmith Maid, a trotter, which, in her prime, beat everything that was pitted against her, not excepting Time itself, closing her brilliant trotting career with a record of 2.14, and winner of 322 heats in 2.30 or better, although many publishers are now stating it 2.32, thus robbing her of ninety hard-fought victories, or more well-made wheel will endure constant wear well-made wheel will endure constant wear her of ninety hard-fought victories, or more | well-made wheel will endure constant wea than one-fourth of the credit to which she is justly entitled.

from ten to twenty-five years, if care is taken to use the right kind and proper amount of

have produced trotters with records of 2:30 or better, and six of the seven have contributed representatives to the 2:20 list, a number and penetrate the hub, and work its way out proportion which has never been equalled by any other trotting sire. These six sons are credited with eleven trotters that have won in 2:20 or better, viz.: Almont three, the best lubricator for wooden axle-trees, and easter of for iron in 2:20 or better, viz.: Almont three, the best lubricator for wooden axle-trees, and easter of for iron they wooden axle-trees, and easter of for iron axle-trees, and easter of for iron axle-trees, and spoiling the wooden ax 2.18%; Wood's Hambletonian one, 2.20; Jim cheaper and more convenient to handle.

Monroe two, the best 2.18%; Thornedale two, the best 2.18%, and Maior Edsallone, 2.18. The spindle of a wagon to give it a slight coating; dams of four of these seven sons, which have this is better than more, for the curplus pu

rysdyk's Hambletonian and Mambrino Chief were descendants of Mambrino, son of imported Messenger, Hambletonian being by Abdallah, son of Mambrino Paymaster, another son of Mambrino, hence, crossing the Hambletonians with the Mambrino Chief. unites two separate strains of Messenger blood. This method of in-breeding has been practised in England for a long time, and has proved remarkably successful in the production of speed at the running gait. The Eng-lish writer, J. H. Walsh, better known as "Stoachenge," in his excellent work on the horse, speaking of breeding, states that "the horses which have been the mostremarkable of late years as stallions were considerably inbred." In another place he remarks that "a hit in breeding is understood to mean an instance of success, but though it often oc-My own belief is that it generally results as I have laid down in the 16th axiom, from the reunion of lines which have been often kept separate for several generations."

contain no opium, quimne, or other harmful drug and are highly recommended for head-ache, neuralgia and nervousness. 50 cents, at druggists.

A beautiful Boston girl has crossed to curs, the reason for it is not always very clear

In the 14th axiom he states that breeding Europe in the steerage of a Cunard liner, just "in-and-in' prevails extensively in a state of to see how it was. nature with all gregarious animals, such as The care, precision, neatness and perfection teaches. In nature we find that about two out the motto: "Purissima et Optima" (pures consecutive crosses of the same blood is the usual extent to which it is carried, as that is

It is asserted that British capital to the ex the limit of the life of the animal. Once in and once out is the rule for breeding given by Mr. Smith in his work on breeding for the turf, but twice in will be found to be more in the turf, but twice in will be found to be more in the same transfer of the same accordance of the most successful early English breeders." Axiom 16th to which he refers is that "when some of the elements or blood lines of which an individual sire is composed are in accordance with others making up those of the dam, they coalesce in such a kindred way as to make what is called a 'hit.' " If farmers who are breeding a few colts every year will bear these facts in mind, and carefully trace the breeding of their mares, then take them to the best stallion that they can find whose breeding has been established, and which is known to possess some of the best strains found in the mare, their chances of producing an animal of su-perior excellence will be greatly increased. Goldsmith Maid, the most wonderful enduring trotter that has ever been produced, is an example of this method of breeding, her dam being a daughter of old Abdallah, while her sire was a grandson of the same horse. Clingstone (2:14) is another example, his sire, Rysdyk, being a son of Rysdyk's Hambletonian, while his dam Gretchen was by Chosroes another son of Hambletonian.

Inbreeding has been very successfully prac-Hawk. A very observing horseman, who has not only carefully studied the breeding prob-lem but has had excellent success in breedlem but has had excellent success in breeding, lately remarked that he "hardly thought there was another family where inbreeding has produced such grand results as among has produced by visitors. This comes of driving away the Indians, who were in the habit of calculating tourists. W. Jewett, a breeder of large and successful experience, stated several years since that "he bred a Black Hawk mare at three years of age Silver Creek, N. Y., Feb. 6, 1880. Gents-I

Farming has been an up hill business this season. In the first place the spring was backward, in the second place too much rain and consequenty too many weeds. Corn especially got a poor start. June 1st it looked miserably, grass fine; but the industrious farmer went to work with a determination to conquer and, am happy to say, has succeeded. Corn is looking very well now with thritty farmers, but those less energetic have failed. Their crops are in a sad plight. Sweet potatoes are doing poorly, Irish are doing well and other garden sass, and oats. There seems to be quite a lot of early apples though not a full crop; the caterpiller or canker worm did considerable damage to apples in this neighborhood. We have quite a sprinkling peaches, a good many have already gone to market and have brought fair prices. The tomato crop is good though somewhat later than last year. Blackberries, wild, plenty; cultivated, neglected. Clover and grass very good, not all cutyet. Work hands scarce, we have none to spare. Sorghum not much planted, looks poor, too much grass.—Uncle

"Veritas," in the Spirit of the Times, says:

"I am not old enough to sit down with the veteran horsemen and sagely wag my head in deploring the methods of the present day as compared with the past, and I feel sure the breeding, management and training of trot-ters is more thoroughly understood now than then, yet I am inclined to believe there is a Good indges believe that the chestnut gelding Edwin Thorne stands a better chance of placing a low record to his credit this season than any other trotter upon the turf, excepting St. 1975. placing a low record to his credit this season than any other trotter upon the turf, excepting St. Julien, whose record is already 2.11½, while that of Thorne's is 2.16½, yet by those who know him best he is rated capable of trotting a mile in 2.12. Edwin Thorne was foaled in 1873, and got by Thorneddle, his dam being by Ashland, a son of Mambrino Chief. Thornedale was by Alexander's Abdullah, out of Dolly, by Mambrino Chief, thus giving Edwin Thorne two close except. er long on the tarf, being asked to do his best in exercise. I remember Jim McMann used to say he never knew how fast Pocahontas which in her day was the fastest trotter upon the turf. His sire, Thornedale, has a record 2.224. Alexander's Abdallah, Thornedale's sire, had the most remarkable power of imparting speed and speed producing qualities to his offspring of any stallion that ever lived. to his offspring of any stallion that ever lived.

He was got by Rysdyk's Hambletonian when that noted sire of trotters was only two years old. His dam is now supposed to have been by a son of Andrew Jackson, which makes his breeding almost identical with that of Geo. Wilkes, both being by the same sire, while the dams of both were granddaughters, while the dams of both were granddaughters, while the dams of both were granddaughters, while the dams of both were granddaughters.

Solve Milkes, both being by the same sire, while the dams of both were granddaughters, while the dams of both were granddaughters. Solve Milkes, both being by the same sire, while the dams of both were granddaughters. Solve Milkes, both being by the same sire, while the dams of both were granddaughters. Solve Milkes, both being by the same sire, while the dams of both were granddaughters. Solve Milkes, both being by the same sire, while the dams of both were granddaughters. Solve Milkes, both being by the same sire, while the dams of both were granddaughters. Solve Milkes, both being by the same sire, while has never been beaten in public or brivate. Who ever heard of Mace driving Hopeful in 2:14½, or Darby in 2:16½, in their work? During the year Rarus was on every

Seven of the sons of Alexander's Abdallah grease; but if this matter is not attended to, produced 2.30 trotters, were by Mambrino on will work out at the ends, and be forced by the shoulder bands and nut-washer into trotters got by these sons were also descendants of Mambrino Chief.

To oil an iron axle-tree first wipe the spindle

Wise's Axle Grease takes the place of lard oil on reaper cams and rollers

Twice as many men as women die o Mrs. C. L. White, St. Louis, Mo., says: "I

have found Brown's Iron Bitters to be a good remedy for general debility."

The law forbidding Jews to have Christian servants is revived in the government of

Dr. Benson's Celery and Chamomile Pills

the horse, hence it is reasonable to conclude chibited by the very appearance of Simmons that breeding 'in-and-in' is not prejudicial if not carried farther by art than nature pared medicine in the market, fully carrying

never fails in restoring gray hair to its youth ful color, lustre, and vitality. Dr. A. A. Hayes, State Assayer of Massachusetts, en-dorses it, and all who give it a fair trial unite in grateful testimony to its many virtues.

For an example of pure and unalloyed cor tempt, take a barber's opinion of a man who is growing a full beard. Nine girls living in Vermont have organized

a base ball club and play on the village green every Wednesday and Saturday afternoon. One's first duty is to use every precaution to avoid disease, but when it overtakes a person it is then a binding duty to employ the best remedies to effect a prompt cure, such as may be found in the celebrated Home Sanative cordial which is pleasant to the taste and adapted to all constitutions.

The deepest running stream that is known is the Niagarariver, just under the suspension bridge, where it is seven hundred feet deep by actual measurement.

It is not necessary to enter into particulars in reference to the complicated organic and functional difficulties to which the more tised with the descendants of Vermont Black | delicate classes of American women are sub-

Silver Creek, S. 1., Feb. 6, 1850. Gents—1 have been very low, and have tried every-low, and have tried every-low, and have tried every-low, and afterwards taken to Whitewaer, Wis.

Silver Creek, S. 1., Feb. 6, 1850. Gents—1 have been very low, and have tried every-low, and have tried every-low and h

around, and constantly improving, and am nearly as strong as ever. W. H. Weiler.

Tomatoes, not many generations ago, were known as love apples, and considered pois-onous. Last (all there were 52,322,052 cans of tomatoes put up by the canning establishments of the United States.

Startling Weakness, General and Nervous Debility, Impaired Memory, Lack of Self-con-fidence, Premature Loss of Manly Vigor and fidence, Premature Loss of Manly vigor and Powers, are common results of excessive in-dulgence or youthful indiscretions and per-nicious solitary practices. Victims whose manhood has thus been wrecked by self-abuse should address with three letter stamps, for large illustrated treatise giving

means of perfect cure, World's Dispensary Medical Association, Buffalo, N. Y. Frank James says he never killed a man nniess he felt that it; was necessary. And he never felt that it was necessary unless the man demurred at the very reasonable request to give up his money, watch, and other valuables. Highwaymen are lied about as well as

the rest of us.
Samuel Howard of Mount Sterling, Ky., recently chopped down a big black locust tree, in the hollow of which grew another tree of a different kind which was ten inches in diame-ter and twenty feet in height. It had grown in perfect darkness, as there was no opening

to all, and invite you to accept of their life-giving qualities. Hot as they are, a more pleasant drink cannot be found, and after having bathed in them one feels much re-

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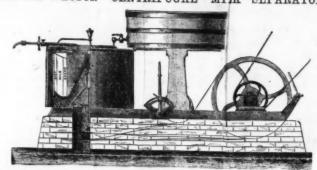
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# The Home Circle.

#### TO FANNIE FROST.

We (a) pensive passed along Sedalia's From it, we saw a lady quick emerge In action, gesture, and the meekest mien, She was the acme of perfection seen. "My friend, couldst tell me who might that

lady be? "The teasing Fanny Frost, you plainly see Take my advice, we'll quickly pass her by. Sedalia's maidens all, she'd 'nice' defy.

But yesterday, to Grandma slyly said: 'Of Future Great, the crowning shame hast heard?

G.M. Why no, my dear, what may the matter

Can aught down there from swiftest jus tice flee? F.F. In sick men's house (b) a man unburied

lies. G.M. His speedy burial who so bold denies? F.F. Most brief details just now have slowly

The sturdy man, they say, not yet is dead.
REV. GEO. Λ. WATSON. P.S. (a) Two residents of Sedalia; (b) City Hos-

pital.

Dame Rumor told this most veracious Her truthful voice, we ever, joyous hail.

#### The Old Maid.

Has the Home Circle a welcome for a timid old maid? Have pity for the lonely creature, who seeks admittance to the fortunate as I am. Idyll says there are none but pretty girls, sprightly widows or silly married women among you. Does that mean no others are admitted? Per-haps if I should introduce myself your haps it I should introduce mysel your hearts would be touched by my sad story. Am a genuine Missouri girl with the usual amount of enterprise, but for twen-ty-five years have I been seeking a life partner [Failing entirely, am now desperate, and only trying to gather the few stray crumbs of comfort that may fall in stray crumbs of comfor my way. May I come? OLD MAID.

Gallatin, Mo.

Come! Certainly; all are welcome to the Home Circle who love, honor and appreciate its surroundings .- EDITOR.

## Fairy Frost Seeks Information

Dear Circle-We are readers of the RURAL WORLD and are very well pleased with it. I hail with delight the RURAL every week and always look for the Home Circle first. We have a great many fine writers of which we should proud. I have never written before and so of course feel rather bashful. but hope there may be some corner in which I may be permitted to look on. I live in the country and like it very well. but would like it better if it was not all prairie. We wish to move some place where there is more timber and where the elimate is warmer, on account of the health of my father who is delicate. Have been thinking a little of Arkansas, but we are not certain about the state. Would like to hear from some of the writing the state of the writing the state of the writing the state. ters who reside there or any one else who can give me information concerning that state. Would like to know about Homestead Lands, if there are any and in what part. In one of the papers I noticed a letter from Bettie Disnought of Boone County and would be glad to hear from her again concerning, that and adjacent counties. Being a school teacher would like to hear something regarding the schools and wages. I am anxious to hear from any writers and will be great y bliged.

FAIRY FROST.

Clay Center, Kansas. ters who reside there or any one else

## Floe Makes a Call.

Good morning, happy Circle! I've been standing on the threshold (eavesdropping) this long, long while, secretly enjoying the scintillations of wit and humor, "tort" and retort, etc., until the temptation to "drop in," has grown ir-

the current, and the dripping garments that weigh me down, and would ask admission long enough to don one of the light, cheery robes, wherewith ye are light, cheery robes, wherewith ye are are taken out of the water and placed clothed. I would borrow vivacity of spirit, "and be gay and happy too"—entering into your fireside joys with an overflowing relish, and, if I could, elicit such beautiful expressions and tender trade demands. With vinegar at 15 cents per gallon, you ought to be able to make pickles at a profit.—The Fruit Record. sympathies as the noble Fred lavishes upon Daisy; I-I'd like to be a daisy, too. It may be so, Fred, that some roughness is essential to a real appreciation of the delicacies of life, but you make a broad miss if you place yourself upon the dull side. Your pun upon the Critic is a very happy stroke. I appreciate your poetic

I, too, would gambol in the realm of rhymes, As boy with earnest purpose and with laugh

ing eye, cal would sport with dreams of poo only be to set up another target for

The fellow you happily clothe in verse In garments, well-fitting, bewitching and

But, for my part, I can't tell, in thinking it

Whether better he stood on two feet or four. I hear a chorus of voices singing out—foolish, silly, girl! And so many "high-mettled" pens taking up the echo—fool-

World of June 28 is before me. The always be gathered when perfectly dry, only representative of the Home Circle this week is Fannie Frost—can it be that the other members have gone en masse, length of time before being preserved, to the seaside! But who is this Fannie a slight fermentation will take place

Frost, I wonder! Bright, dashy, flashy which will injure the flavor. If the Fannie! Won't you tell me who you are by some little innuendo that the public won't understand? Please do, I have "child's" inquiring turn of mind, and a "woman's" curiosity. You say that you can write just as good poetry as Idyll, or May Myrtle. Now, Fanny, I've a suggestion to make. (sub-rosa). Our gallant, noble-bearted Editor says, Idyll gainant, non-bearted Entro's says, toyn and May Myrt.e are the two best writers in Missouri. I'm sure he meant no harm by it, but—he's never seen any of our poetry. Now, suppose we each write a poem, and let him see that he don't know all the good writers in the State. I'm kind o' jealous, ar'n't you? But don't you tell what I have said, for the world! I wish I knew as much about cooking as you do—I'm pretty good at "helping" though; we had an ice-cream supper the other night, and the folks all said it was "nice enough for a wedding." Well, I must go now—we are expecting twenty or thirty threshers to-morrow, have to enter the role as "Nimble Dick."
I'd like "awful" well to see those new babies; I known the little "M. D." is just like its father, for the world!-

Dieu vous garde.

# Good Health, Etc.

#### Seasonable Directions for Canning

CANNING GREEN PEAS.—Minnie McC and others. To can green peas, partly cook them for about ten minutes, and cook them for about ten minutes, and then put them, while hot, into the cans, and then put them, while hot, into the cans, are then genial rays of love and friendship. Old maids are never otherwise than fearfully in the way, yet I will solemnly vow to let the harmony of the Circle remain perfect and thus relieve the not enviable reputation of my sisters who are as unfortunate as I am. Idyll says there are none but ten minutes, and then put them, while hot, into the cans are then got and coal are but condensed sum-bine, which contains three important contents and the put them, while hot, into the cans are then got and coal are but condensed sum-bine, which contains three important contents and the put them, while hot, into the cans, and then put them, while hot, into the cans, and then put them, while hot, into the cans, and then put them, while hot, into the cans, and then put them, while hot, into the cans, and then put them, while hot, into the cans, are then got and coal are but condensed sum-bine, which contains three important conce, a small hole having been made in the put into a none, a small hole having been made in the put into a none, a small hole having been made in the put into a none, a small hole having been made in the put into a none, a small hole having been made in the put into a none, a small hole having been made in the put into a none, as small hole having been made in the put into a none, as small hole having been made in the put into a none, as small hole having been made in the put into a none, a small hole having been made in the put into a none, a small hole having been made in the put into a none, a small hole having been made in the put into a none, a small hole having been made in the put into a none, a small hole having been made in the put into a none, a small hole having been made in the put into a none, as small hole having been made in the put into a none, as small hole having been made in the put into a none, as small hole having been made in the put into a none and into a non ready to be put away in a cool, dry place.

LIZZIE R.

CANNING TOMATOES.—Martha L. In capning tomatoes, if they are cooked some time, and seasoned with salt, pepper and butter, there will seldom be any trouble about their keeping. I us Mason's self-sealing jars, and keep them in a dark place. V. J. T.

CANNING STRING BEANS.—Wash and break off both ends of the beans, break them in small pieces. Cook in boiling hot water for ten minutes; put them in the cans and then in boiling water to boil half an hour. Follow the directions given above for canning green peas.

CANNED CORN.-Mr. L. E. S., Stock-CANNED CORN.—MI. II. E. S., SIGCK-holm, N. Y. Dissolve an ounce of tar-taric acid in half a teacupful of water, and take one tablespoonful to two quarts of sweet corn, cook till nearly done, with only a very little water, and while boiling hot, fill the cans, which should be tin. When ready to use, turn into a colan-der or coarse sieve, rinse with cold wa-ter, add a little soda and sugar while cooking, and season with butter, pepper and salt.—Farm and Fireside.

## Raising and Picking Cucumbers.

Pickles grow well upon almost any land that is in good heart; they like a freshly plowed sod and land that is a little moist or damp, but not wet. Fresh horse manure suits them as well as any dressing, but it must be well mixed with the sod. The seed may be put in June 20 to July 4, in rows five or six feet apart. Those planted at the earlier date usually bear the heavier crop, but it is not always convenient to get them in early. They are frequently grown as a second crop after peas or early cut grass, and are a very hardy crop for breaking up green sward. Flat turnips may be sown among them at the last hoeing, and make a fair crop after the frost has killed the vines. The pickles are preserved for winter and spring sale by salting. Molasses hogsheads answer very well for one year,

but the wooden hoops soon break. Lin-seed oil casks are better, but more ex-pensive, and I know one large establish-ment where the pickles are all salted in cisterns underground, built of brick and cement. The brine for salting pickles must be strong enough to float a potato; if a little stronger it will do no harm, temptation to "drop in," has grown irresistible. You are startled at this introduction—and so am I, timid creature!

"Who are you—and from what unad keep a little salt on the cover for the "Who are you—and from what unknown cavern of mysteries do you come?" Well, only a little bundle of much heart and little body, drifting through breakers and brushwood on a field tide. I am tired of the combat—the gyrent and the dripping graphing graphing through the dripping graphing through the dripping graphing the pickles are scooped out of the brine with a fisherman's common dip net, placed in fresh water, which must be placed in fresh water, which must be a compared two or three fives are stronged two or three fives are stronged to the covers from the covers from the covers from the many deep a little salt on the covers from the many land keep a little salt on the covers for the first week. Peppers, beans, cauliflowers, &c., are salted in the same manner for mixed pickles. When wanted for sale, the pickles are scooped out of the brine with a fisherman's common dip net.

## Preserving Fruit.

For the proper keeping of all kinds of For the proper keeping of all kinds of preserving fruit a dry and cool closet or cupboard is indispensable; it is also of great importance that the tops of the jars should be made perfectly air-tight. The old-fashioned method of spreading paper dipped in brandy on top of jam or jelly is worse than useless, as the spirit will evaporate and leave the fruit unprotected. The best method of closing is, first lay over the top of jams, &c., a piece of clean tissue or thin writing paper. ing eye,
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fruit is allowed to become over-ripe, the preserves will become mawkish and deficient in flavor. All unripe, decayed or otherwise imperfect froit should be carefully picked out. The boiling should be the carefully picked out. proceed rapidly for a short time; the fruit s neither likely to keep well nor to be of a good color if it is allowed to simmer for long time. Juicy fruits, such as cur ants, raspberries, etc., which are now equired to be kept whole, are better required to be kept whole, are better when allowed to boil for several minutes before the sugar is put into the pan. Fruit which it is desired to keep unbroken should have a little sugar sprinkled over it a few hours previous to boiling, to draw the juice; as this will rarely be sufficient it should have juice from other fruit put in with it into the pan; red cur-rant juice may safely be used for this rant juice may safely be used for this purpose and it will not spoil the flavor of any other kind of fruit.

#### Power of Sunshine.

From an acorn, weighing a few grains, a tree will grow for one hundred years or more, not only throwing off many pounds of leaves every year, but itself weighing many tons. If an orange twig is put in a large box of earth, and that earth is weighed, when the twig becomes a tree, bearing luscious fruit, there will be very nearly the same amount of earth. nearly the same amount of earth. From careful experiments made by different scientific men, it is an ascertained fact that a very large part of the growth of a tree is derived from the sun, from the air, and from the water, and a very little from the earth; and notably all vegetation becomes sickly unless it is freely exposed to sunshine. ly unless it is freely exposed to sunshine Wood and coal are but condensed sunthat the more persons are out of doors the more healthy and vigorous they are, and the longer will they live. Every human being ought to have an hour or two of sunshine at noon in winter, and in early forenoon in summer.

BUCHU-PAIBA. — Quick, complete, cure, all annoyin; Kidney, Bladder and Urinary Diseases. \$1. Druggists.

#### THIS AND THAT.

Wise's Axle Grease keeps the axles bright William Butler, a full-blooded Cherokee Indian, is a painter in oils and a skilful car

Coal oil grease specks the iron. Wise's Axle Grease is made of vegetable oil.

The bust of W. M. Evarts, by Bartfoldi, la accessful in features, but not in the shape o the head.

Ayer's Sarsaparilla is the most effective ood-purifier ever devised. It is recommend ed by the best physicians.

The American exhibit in the international fisheries, London, exceeds those of all An art loan exhibition will be held in Nev

York next December in aid of the Bartholdi statue pedestal fund. Mr. Chas. Bang, St. Louis, Mo., says: "I find

Brown's Iron Bitters gives satisfaction to all those who use it." The sculptor Harnisch, of Philadelphia, is sily engaged at work in Rome on the colos

sal statue of Calhoun, for Charleston, South Faded articles of all kinds restored to their original beauty by Diamond Dyes. Perfect and simple. 10 cents, at all druggists.

The strange announcement has been made by a foreign journal that the Pall Mall Ga-cette says the Suez Canal is in a fair way to become a stagnant sewer. The stations on its banks drain into it, it is never flushed, there is no tide, and the stench is becoming

me."-F. P. Lavelle, Merced, Cal. \$1, at drug-

Although three or four crystals of the gen nine precious topaz, remarkable for size and clearness, have been found near Pike's Peak, Mr. R. T. Cross asserted that the stone which is cut in Colorado and sold as topaz to tour-ists is not topaz at all, but smoky quartz, or the cairgorn stone of Scotland

Dr Pierce's "Pellets," or sugar-coated granules—the original "little liver pills," (beware of imitations)—cure sick and bilious headache, cleanse the stomach and bowels, and purify the blood. To get genuine, see Dr. Pierce's signature and portrait on Gove ment stamp. 25 cents per vial, by druggists

Walter Evans, a farmer near Reading, Pa., who died recently at the age of 90, had lived on that farm all his life, never left it, and never saw a railroad train.

My wife had fits.-"For 35 years," says our correspondent Henry Clark, of Fairfield, Le-nawee Co., Mich., "my wife had fits. They would last about an hour, and sometimes longer. Samaritan Nervine has permanently cured her." Dr. J. S. Pond of Hagerstown, Ind., who

died lately, bequeathed \$20,000 to his widow and from \$200 to \$500 each to all the women

The amount raised to send abroad the

American contribution to the Munich International Art Exhibition did not meet the ex. penses. The members of the committee had to pay their own insurance (\$6.25 on the thousand dollars), and request other artists sending high-priced works to do the safe to how much suffering might be avoided by the pure remedy she used how much suffering might be avoided by the pure remedy she will be removed. the amount of fifty per cent. Neither was there money to decorate the American exhibit as will be done with those of other na tions.

Dragging Pains .- Dr. R. V. Pierce, Buffalo N. Y.: Dear Sir—My wife had suffered with "female weaknesses" for nearly three years. At times she could hardly move, she had such dragging pains. We often saw your "Favorite Prescription" advertised, but supposed like most patent medicines it did not amount to any thing, but at last concluded to try to any thing, but at last concluded to try to any thing, but at last concluded to try to any thing, but at last concluded to try to any thing, but at last concluded to try to any thing, but at last concluded to try to any thing, but at last concluded to try to any thing, but at last concluded to try to any thing, but at last concluded to try to any thing, but at last concluded to try to any thing, but at last concluded to try to any thing, but at last concluded to try to any thing, but at last concluded to try to any thing, but at last concluded to try to any thing, but at last concluded to try to any thing, but at last concluded to try to any thing, but at last concluded to try to any thing the formation address. the Prescription" advertised, but supposed like most patent medicines it did not amount to any thing, but at last concluded to try a bottle, which she did. It made her sick at first, but it began to show its effect in a marked improvement, and two bottles cured her. Yours, etc., A. J. Huyck, Deposit, N. Y.

A QUEEN OF THE STAGE.

'Her Second Love,' and the Important Secret She Reveals for the Benefit of Women.

[New York World.]

Several years ago the American public were aroused by the entree upon the stage of a little lady who had been previously but little announced. She was one of an innumerable number of aspirants for public favor and had no instrumentality, aside from her own talents, to cause recognition. In spite of this fact, however, she quickly achieved a warm place in the heart of the public, which she has continued to hold ever since. When it was announced, therefore, that Miss Maud Granger would star the coming season in the play "Her Second Love," written by Mr. John A. Stevens, it was only natural that unusual interest should be manifested not only in theatrical circles, but in other branches of the community. This was specially the case, one of an innumerable number of aspicommunity. This was specially the case, as it was known that Miss Granger had, for the past year, been in exceedingly delicate health, and the determination to star in a strong emotional play was the more surprising. One of the staff of this paper was accordingly deputized to see the popular lady and verify the rumor or unce its incorrectness.

announce its incorrectness.

Miss Granger's countenance is familiar to nearly every one in the United States. It is a face once seen never to be forgotten. Features remarkable in their outline and contours are line and contour are surmounted by a pair of large and deep eyes indicative of the greatest soul power. It is easy to see where Miss Granger obtains the ability to portray characters of the most emotional nature. She possesses within her-self the elements of feeling without which no emotion can be conveyed to an audience. The man of news found the lady at her home in this city and was ac corded a quiet welcome. It was evident at once that she was in greatly improved health, which the expression and color of her countenance indicated.

"Is it true, Miss Granger, that you con-template a starring tour the coming sea-

"Yes, indeed. My season begins in Chicago on the 16th of July. From there I go to San Francisco and then play the remainder of the season through the eastern and western states."

"Are you confident your health will permit such an undertaking?"
A ringing laugh was the first reply to this question, after which she said:
"Certainly. It is true I have been ill

for the past two years, but now I am wholly recovered. Few people can have any idea of the strain a conscientious actress undergoes in essaying an emotional part. It is necessary to put one's whole sold into the work in order to rightly portray the character. This necessitates an utter abandonment of one's personality and an assumption of the character portrayed. If this is an emotional part it is necessary to feel the same emotions the part is supposed to feel. For more than a year I actually cried each night in certain passages of a part I was playing. The audience considered it art. Proba-bly it was, but those were none the less real tears and the effect was none the less traing upon my health."

trying upon my health,"
"But do you anticipate avoiding this
in the future?"

"Not in the least, I expect to have just as great a strain as before but with restored health and a knowledge of how

to retain it I do not fear."
"You speak of a 'knowledge of how to retain health.' Will you please explain what you mean by that?"
"You must be aware that women by

"You must be aware that women by their very natures are subject to troubles and afflictions unknown to the sterner sex. The name of these troubles is legion, but in whatever form they may come they are weaknesses which interfere with every ambition and hope in life. I believe thousands of noble women are to-day suffering agonies of which even their best friends and relatives know little or nothing, and when I reflect upon it, I its banks drain into it, it is never flushed, there is no tide, and the stench is becoming unbearable.

"I had Sait Rheum for 19 years. Four packages of Dr. Benson's Skin Cure entirely cured of the laws of life or a neglect to careful-ages of Dr. Benson's Skin Cure entirely cured of the laws of life or a neglect to careful-ages of Dr. Benson's Skin Cure entirely cured of the laws of life or a neglect to careful-ages of Dr. Benson's Skin Cure entirely cured of the laws of life or a neglect to careful-ages of Dr. Benson's Skin Cure entirely cured of the laws of life or a neglect to careful-ages of Dr. Benson's Skin Cure entirely cured of the laws of life or a neglect to careful-ages of Dr. Benson's Skin Cure entirely cured of the laws of life or a neglect to careful-ages of Dr. Benson's Skin Cure entirely cured of the laws of life or a neglect to careful-ages of Dr. Benson's Skin Cure entirely cured of the laws of life or a neglect to careful-ages of Dr. Benson's Skin Cure entirely cured of the laws of life or a neglect to careful-ages of Dr. Benson's Skin Cure entirely cured of the laws of life or a neglect to careful-ages of Dr. Benson's Skin Cure entirely cured of the laws of life or a neglect to careful-ages of Dr. Benson's Skin Cure entirely cured of the laws of life or a neglect to careful-ages of Dr. Benson's Skin Cure entirely cured of the laws of life or a neglect to careful-ages of Dr. Benson's Skin Cure entirely cured of the laws of life or a neglect to careful-ages of Dr. Benson's Skin Cure entirely cured of the laws of life or a neglect to careful-ages of Dr. Benson's Skin Cure entirely cured of the laws of life or a neglect to careful-ages of Dr. Benson's Skin Cure entirely cured of the laws of life or a neglect to careful-ages of Dr. Benson's Skin Cure entirely cured of the laws of life or a neglect to careful-ages of Dr. Benson's Skin Cure entirely cured of the laws of life or a neglect to careful-ages of Dr. Benson's Skin Cure entirely cured of the laws of life or a neglect to careful-ages of Dr. of a bitter experience in saying this, and I am thankful I know the means of res oration, and how to remain in perfect ealth."

"Please explain more fully." "Well, I have found a remedy which seems specially adapted for this very purpose. It is pure and palatable and controls the health and life, as I believe, nothing else will. It is really invaluable. else will. It is really invaluable and if all the women in America were to use it I am quite sure most of the suffer-ing and many deaths might be avoided." "What is this wonderful remedy?" "Warner's Safe Cure."

"And you use it?

"Constantly."

"And hence believe you will be able to go through the coming season success-

fully? "I am quite certain of it.

"A few questions more. Miss Granger. Will you please give me a list of the parts you have created and the plays you have taken part in since your first appearance in public? "I first played for some time with the

amateurs in New York and Brooklyn. I then went to the Union Square theatre for two seasons, after that to the Boston Globe for one season and then to Booth's and from \$200 to \$500 each to all the women who are now old maids whom he courted in his youth. This romantic remembrance required an outlay of \$5,000.

Monroe, Mich., Sept 25, 1875, Sirs—I have been taking Hop Bitters for inflamation of kidneys and bladder. It has done for me what four doctors failed to do. The effect of Hop Bitters seemed like magic to me.—W. L. Carter.

Carter.

Globe for one season and then to Booth's theatre in this city. Next I supported the part of Autonia and afterwards starred in Juliet, Camille, Rosalind, etc. Subsequently I created the part of Cicely Blaine in the Galley Slave and also starred in Two Nights in Rome, playing the part of Antonia. The past year I have been playing in the Planter's Wife and the coming season, as I have said, will be devoted to Her Second Love."

The amount raised to send alread the

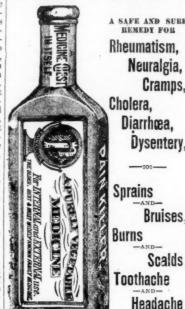
As the writer was returning home he fell into a train of musing and wondered if all the women in this land who are sufand how much happiness secured.

## A LIVE SCHOOL

ERRORS OF YOUTH.

\$5 to \$20 per day at home. Samples worth \$5 free. Address STINSON & Co., Portland, Ma.

# PERRY DAVIS' Pain-Killer!



A SAFE AND SUBE REMEDY FOR Rheumatism, Neuralgia, Cramps, Cholera,

**Sprains** Burns Scalds

Toothache Headache

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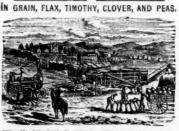
entains an antidote for all malarial disor-ers which, so far as known, is used in no other medy. It contains no Quinine, nor any mineral or deleterious substance whatever, and consetently produces no injurious effect upon the con-tution, but leaves the system as healthy as it as before the attack. WE WARRANT AYER'S AGUE CURE to

re every case of Fever and Ague, Intermittent
Chill Fever, Remittent Fever, Dumb Ague, ilious Fever, and Liver Complaint caused by alaria. In case of failure, after due trial, deal-s are authorized, by our circular dated July t, 1882, to refund the money.

r. J. C. Ayer & Co., Lowell, Mass. Sold by all Druggists.



J.I.CASE T.M.CO. RACINE, WIS "Don't Change it." "Perfect as it is."



PORTABLE (8, 10, 12 and 16) TRACTION (8, 10, and 12) STRAW-BURNING (8, 10, 12, 16 Horse)

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We make the most Practical Straw-Burning Engine in the World. The Popular Double Pinion 4-Wheel Woodbury Horse-Power Reversible Bull Wheel. Runs either way, Low or High Speed. The BEST Power made. Ours Exclusively.

Do you live near Timber? If so, buy our and PORTABLE SAW MILL Take it to the timber. SAVE HAULING Logs to the Mill. 5,000 TO 10,000 FEET PER DAY. ALL MACHINERY WARRANTED.



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ASTROLOGER, PHYSICIAN. Cures all disease A es, tells past and future love affairs, speed marriage, evil influences, good luck, law speculations, what business to engage in, &c attended Book sent for 15 cts. Dr. ALLEO 20 S. 15th street, St. Louis.

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No preparation and only a
common pen needed. Supefror for decorative work of

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We will pay \$25.00 in Gold to the person send-ng us the largest list of words that can be pelled by using any of the fifteen letter ound in the words "COLUMBUS BLEGGY

found in the words "COLUMBUS BIGGY CO.," which appear upon our mammoth engraving "An Australian Scene."

For the second largest list, \$15.00 in Gold. For the third largest list, \$10.00 in Gold. The contest will close august lst, 1883. If at the occurs in the lists which entitles the senders to any one of the three rewards, that reward will be equitably divided.

The Australian Scene is in colors (size 28 x40 inches—nearly 2½ feet wide and over 3 feet long), and shows the manner of traveling in that country with Ostriches as a motor. Those who compete for these rewards must send us thirty cents in silver or stamps, when this fine work of art will be sent by mail, neatly packed in a strong tube. The engraving is worth far more than this nominal sum, but we desire to keep a record of those who compete for the prizes and also wish to know of those who desire to know of us.

When writing for the engraving and sending

of us.
When writing for the engraving and sending your list of words ask for

Circular of Easy Riding AUTOMATIC SPRING SIDE-BAR ROAD WAGON.



These springs "automatically" adjust themselves to the weight imposed.
They have the soft, flexible motion of a long spting and weigh one-third less.
They are the lightest flexion springs, to their carrying capacity, ever produced for side-bar wagons. See list of weight and capacity in wagons. See list of weight and capacity in Circular.

They are manufactured from the finest cru-cible steel..

Columbus Buggy Co,

MANUFACTURERS OF Strictly First-Class Buggies Only, COLUMBUS, OHIO.

House: Kansas City, Mo., and Indianapolis, Ind.

# s. Wind Eng. & Pump Co., Batavia, III. Manufacturing Co.



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## ST. LOUIS. STAR CANE MILL.



Saves half the labor. A boy can operate itsuves fuel. Syrup made on it brings a higher price in market. Don't fail to investigate its merits before ordering. Send for CIRCULAR to Eight and Howard Sts., Eight and Howard Sts., St. Louis, Mv., U. S. A.

## \$50 Saved! A CHEAP CANE MILL.

Three rolls, 9 by 18 inches, driven by threshing machine horse-power. It is thoroughly well made, and highly recommended—a new one, never used. Last year's market price was \$150.00. I received this on a debt, and will sell it for \$100.00. Will fit for belt power for \$5.00 extra. Send for printed description to WM. W. SNELL, Rushford, Minn.



SEPARATOR.

M. & J. RUMELY La Porte, Ind.

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Have scald out t suit l two o and swee have

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# The Dairp.

#### A Kansas Dairy.

The following paragraph from the

evidence of what the Diamond Dairy is doing and how they do it:

J. G. Johnston & Co., Peabody, Marion county, Kas., have their creamery in full operation at present and doing well, making an average of 850 pounds per day and selling for 23 eents on the track. They have the cream from 1,100 cows in that section for which they pay 16 cents per gauge, a high price for this season. The shipments go to Texas, Colorado and Kansas City. They have a commission house in Kansas City which they find quite advantageous. The cans and refrigerator outilis are made in Peabody and owned by the patrons of the creamery. There is no creamery in and owned by the partons of the creamery ery. There is no creamery in the State, I think, that has such a good class of dairy cows as there is in the vicinity of Peabody. The short-horn cattle of this section have been bred with reference to milking qualities, which is certainly quite an advantage to Diamond Creamery, and I am safe in the state-ment that nowhere in Kansas is so much ream produced from the same number of cows as in the vicitnity of Peabody. Eleven teams are kept busy gathering cream from the farmers. Truly, the dairy industry of Kansas is assuming large proportions.

#### How Long Butter Will Keep.

A few years ago while a well in this place was being cleaned, a half-pound of butter was found in the bottom as good and sweet as when first made. How long it had been there no one knew. The present occupant of the premises has been fifteen years on the place, and the pump being in constant use, there had been no occasion before to have it cleaned. The butter must have been there all this time, and fine long before is not known. The and how long before is not known. The outside was of a paler color than that within, but otherwise there was no

change.
It is not unknown to good dairy folks that butter will keep well in cool, pure spring water, and some have taken advantage of the fact to preserve butter in close vessels under the surface. But we think it is not generally known that it would keep so long and in actual contact with the water. It might be of great value whether this hint about preserving butter might not be taken advantage of, so butter might have a regular plan of preserving butter sweet and fresh, until markets or other circumstances favor good prices. It is one of the weaknesses of the butter business that at some seasons prices are ruinously low, and the usual remedy of

ruinously low, and the usual remedy of potting is not a very good cure.

The water of course must be cool and pure. At a high temperature, such as most water near the surface reaches, vegetable organisms grow that would soon communicate decay to any organic matter in the water; but there are many places where a layoon of the proper condition of pure well-water could readplaces where a lagoon of the proper condition of pure well-water could read-

ily be constructed.

It may not be out of place here to remark that little hints such as these are continually occurring in almost every one's experience, but only soon to be forgotten. Yet often if the suggestion be listened to and the thread followed up, one might get on the track of some good idea that would rapidly make a fortune. We think that new 'inventions require much study; but the truth is most of our best discoveries have been y accident.

## Butter Making at Home.

One would think that every housekeep-

churn as often as possible, at least three or four times a week. Churn as soon as the cream is the cream becomes thick. Cool the strippings before you put it with the cream in the next place the churn chains particular attention. As soon as churning is done the churn should be emptted and well washed and scalded, and dried out; then when your cream is ready for churning, if the weather is warm, the churn should be well cooled before the cream is put in. Then add cold water till it feels cool to the hand. But if the weather is cold add boiling water till it feels confortable to the hand, then churn till the butter comes, let the time be long or short. Have the butter bowl and hald well scalded and completely cooled. Take out the butter butter butter some as the cream is ready for short. Have the butter butter butter some and hald well scalded and completely cooled. Take out the butter butter butter some and hald well scalded and completely cooled. Take out the butter with the ladde (not with your hand). Add the sait. As to the quantity, we would say the best. When the salt is added, work the butter some in order to mix the salt with it, set away in a cool place for two or three hours, then work well, set away again for a short time, then work walk and make into rolls and pack into a sweet jar. I think if Fanny will follow these directions in butter-making she will have as good butter as she could desire to eat, and if she has any to sell she will find a ready market, and it will not marter to the purchaser whether the butter of the purchaser whether the ter to the purchaser whether the butter is gilt-edged or creamery, so it is good butter. Fanny has trouble about the cows. Hers are the common kind, and she is of the opinion that thoroughreds would pay better. We doubt they would, for the calves would sell when they are two or three months old for as they are two or three months old for as much as would keep the cows one year. Then the cream and butter would be profit. The next trouble is the churn, there are so many kinds. I have never seen any superior to the old dash churn. Another query is shall I churn sweet or sour cream? We know nothing about churning sweet cream, but we do know you can have good butter from sour cream. Shall I wash the butter or not? It takes the bright yellow color from butter to wash it.—Butter Maker, in Ohio Farmer.

#### Training Heifers to Milk.

This is sometimes called "breaking," but the term is too harsh, and suggestive of ropes and clubs. While opposed to harsh treatment in training heifers to milk, we do not approve of feeding her on sugar, and singing to her, while we waste hours, days and patience in overgoning hor distilled of the milking process. Kansas Farmer from the pen of its excellent travelling correspondent, Heath, is evidence of what the Diamond Dairy is doing and how they do it:

J. G. Johnston & Co.. Peabody, Marion county, Kas., have their creamery in full operation at present and doing well, making an average of 850 pounds perday and selling for 23 cents on the track. They have the cream from 1.100 cows in that section for which they pay 16 cents per gauge, a high price for this season. The shipments go to Texas, Colorado and Kansas City. They have a commission house in Kansas City which they find quite advantageous. The cans and patience in overcoming her dislike of the milking process. It is better to lay aside both sentimental and heroic notions, and take a business view of the subject. With but one or two heifers it is easy enough to per them into perfect docility, but this plan will not apply in large herds, where heifers must be caught up after they have must be caught up after they have must be reasonable, firm and particular and heroic notions, and take a business view of the subject. With but one or two heifers it is easy enough to per herds, where heifers it is easy enough to per them into perfect docility, but this plan will not apply in large herds, where heifers will be caught up after they have must be reasonable, firm and particular properties. is unnecessarily fractions and foolishly timid. Prepare yourself to meet these failings with those human qualities which are apt to overcome them. The best practical method to accomplish this that we have ever seen was the follow-ing: put the heifer in stanchions between two old, quiet cows. A strong man sits down to milk her just as he would an old cow. She is not apt to make flank movements because those old cows are there, and she has a wholesome cows are there, and she has a wholesome respect for them. When she lifts her foot to kick, the strong left arm of the milker meets the blow half way, and it returns immediately as though nothing had happened. In fact, the milker should proceed just as if he had milked her athousand times, and pay no more attention to her gyrations than is necessary to protect himself in the prosecution of his work. With this treatment, she soon work. With this treatment, she learns there is nothing to be gained by opposition, and quietly submits. The best regulated dairies are those where the cows are treated with firmness, made to know their places, and keep in them. A cow is as easily spoilt with over-in-dulgence as with harsh treatment.

Thus far this season the exports of butter show an immense increase over those of a corresponding period last year, while those of cheese exhibit a marked decrease.

The Green City, Mo., creamery has seventeen teams collecting cream, and churns 2.500 pounds of butter a week. They will soon have twenty-five teams collecting cream.

made public.

tory over night, and properly stirred and cooled, the sweet cream should be dipped off in the morning, before the morning milk is added, and kept by itself until the milk is all in, and then warmed to til the milk is all in, and then warmed to the desired degree for applying rennet. Then warm the cream to blood heat, or thereabouts, and run it through a clean strainer, rinsing it through with plenty of warm milk. Then stir it in thoroughly, and apply the rennet, stirring the milk as long as it can be safely stirred, and give it time to become still before it begins to coagulate.—American Dairyman.

more direct use of it. The skim milk contains a valuable portion of the most nutritious food; in taking the cream, only a part of the nutriment is removed. The skim milk is allowed to become slightly sour or "clabbered." The pan is then set upon a cool part of the stove to warm gently, or upon the top of a kettle of boiling water. It should get no warmer than the heat of new milk, when the whey will appear clear and separation takes place, then pour the whole into a bag of thin material and hang it up to drain. When it ceases to drip turn the curd from the bag and mix with salt and a little sweet cream. and a little sweet cream.

A St Louis groceryman advertises Elgin (Ills) creamery butter thus: Elgin (Ills) creamery butter thus:

\$10,000 purchase, choice product, best
quality; by the tub, 23c; single pound;
24c; choice dairy, by the tub, 18c; single
pound 19c; grass butter, by the tub, 111-2c; single pound, 12. On sale at all of
our stores. We have in stock upwards
of 48,000 pounds of butter, bought at
rock-bottom cash prices, and can supply
for a time all who may come. Having
an ice chest on each wagon enables us
to deliver it fresh, cool and sweet.
Why go to Elgin Ills? Cannot Mis-

Why go to Elgin Ills? Cannot Missouri produce its own butter? Choice product, best quality, etc., enough at least for Missouri's own wants? It certainly looks like it.

# The Poultry Pard.

#### Errors in the Poultry Yard. Many errors are liable to occur with be-

ginners at poultry raising, for even the veterans are not free from mistakes at times. In selecting the breed a large times. In selecting the breed a large majority pay greater regard to color and shape than to more desirable qualities. It is well to know that the characteristics of the breed should be understood if no mistakes are to occur. But, after a breeder has become perfectly familiar with all that pertains to his choice of fowls, the common routine of the poultry yard next requires attention. The times yard next requires attention. The times of feeding should be regular, certain hours being fixed upon for that purpose, but there are very few who thus systematically feed their fowls. Water should be kept in the presence of poultry at all times, and it should not only be clean and pure, but fresh, and yet this important matter is overlooked by many. Warmth in winter is very essential to laying, being as important as a full supyard next requires attention. The times In the thirty days ending June 11, ninety-uine pounds six and one-half ounces of butter. No record of a larger quantity of butter in the like period has yet been made public. avoids croup, which is a terrible scourge in a flock, but the small leaks here and there are not regarded as dangerous mat-ters by the average breeders. Even the height of the roosts and construction of We see by the papers that a consignment of 120 head of Holstein cattle, for Smiths & Powell. Syracuse, and Powell Brothers, Springboro, Pa., reached New York last week. By permission of the nests have more or less tendency to Merchant they were forwarded to Syracuse for quarantine. smiths & Powell, Syracuse, and Powell Brothers, Springboro, Pa., reached New York last week. By permission of the Treasury Department they were forwarded to Syracuse for quarantine.

Professor E. W. Stewart, in his recent useful book, celebrates the cow as "the most remarkable producer among animals." She gives at her best nearly seven times her own weight per annum in milk, of food value twice as great as the beef creature of equal size gains during the same time.

An average cow will produce \$30 worth of cream in a year, a calf worth eight or ten dollars, and enough skimmed milk to fatten a ten dollar porker. Figure up the cost of keeping the cow, perform a little problem in substraction, and you have the net profits of the business in figures, which are popularly supposed not to lie.

er ought to know how to make good butter, but if you will take the trouble to examine that which comes to work you will see that they do not. There is variety enough, white, striped or speckled, but very little good butter.

How is good dairy butter made? In the first place, cleanlinesss must be observed from beginning to end. The milk pans claim the first attention. They must be kept sweet and clean. When the greater portion of the good butter used.—K. C. Journal.

An average cow for dairy purposes should give 20 pounds of milk per day during 200 days every year; 8 pounds of with the sweetness of the cream. They should clear free from mould. The milk should stand twenty-four hours, and then the cream skimmed into sweet jars. If you have but two or three cows, save a quart of striplings from each cow, in order to churn as often as possible, at least three or four times a week. Churn as soon as the cream becomes thick. Cool the strippings before you put it with the cream-lin the next place the churn claims nar-eries are about to commence operations in Minnesota, all havening been erected during the present in mence operations in Minnesota, all havening been erected during the present spring. The creameries are about to commence operations in Minnesota, all havening been erected during the present spring. The creamery everywhere is a popular and profitable institution and it is stranged that the people of Missouri are solw in a tereameries are about to commence operations in Minnesota, all havening been erected during the present spring. The creameries are about to commence are dew extracts.

I have owned and run an incubator for the sew extracts of an approach of the sevent popular to fer solve and probably one of the sets in the market; capacity 100 eggs. It are the solve and probably one of the sets in the market; capacity 100 eggs. It are the solve and probable one of the sets in the market; capacity 100 eggs.

The reversal to favore the ever store and mother, it is far from flattering. Following the farm of

plied.

The Journal of Chemistry—an undoubted authority—says of eggs that "at average prices they are among the cheapest and most nutritious articles of diet. Like milk, an egg is a complete food in itself, containing everything necessary to the development of a perfect animal, it is also easily digested if not spoiled in cooking. Indeed, there is no more concentrated and nourishing food than eggs. The albumen, oil and saline matter in eggs are, as in milk, in the right proportion for sustaining animal life."

# Che Pig Pen.

#### Breed Better Pigs.

Breed Better Pigs.

Breeding pigs is usually a hap-hazard affair, especially among our New England farmers. If more attention were given to the breeding of pigs that would put the feed where it would do the most good, an improvement would be made in the right direction. As usually done, the females are bred to the nearest-by males, regardless of blood, breed or quality, and the result is that about 75 per cent of our pigs are mere scrubs, and are far better adapted to composting manure, or cultivating an old pasture, than for making quick, and first-class table pork. The first point to be considered by those who wish to raise pigs should be the selection of the sire, and first of all he should be thoroughbred, as upon the sire we depend for our improvement. The sire should not only have the good points, but be one that is sure to transmit his good points to his get, and in no way can this be assured except by the use of a thoroughbred sire. A scrub or grade eapper points to his get, and in no way can this be assured except by the use of a thor-oughbred sire. A scrub or grade cannot be depended upon. Care in this point should receive that attention necessary as the only means of securing uniformity in

should receive that attention necessary as the only means of securing uniformity in the offspring.

The second point should be the age of the boar. He should not be young and immature, or old and declining, but in the full vigor of life. Probably 15 per cent of the pigs dropped in this part of the pigs dropped in this part of the country are sired by boars less than twelve months old. Breeding pigs from such is contrary to all known laws of breeding. It is contrary to the practice of animals in their wild state; as the older and mature, the strong and vigorous males are masters of the herd, and sires of the offspring. This breeding from such young boars is, we believe, the main cause of the annual loss of young pigs. Pigs thus bred have not the constitution to bear the ills that many pigs are subjected to, so have to go under.

The third point is the constitution. However fine and nice, and true to type or form he may be, he is worthless with a case of the great and rive to type or form he may be, he is worthless with a case of the fertile properties. The cost of the preservative required will not except the reservative required will not except one can event within the reach of the pigs from probably 15 per cent of the pigs from such young pigs. Pigs thus bred have not the probably 15 per cent of the pigs from probably 15 per cent of the pigs from such young pigs. Pigs thus bred have not the probably 15 per cent of the pigs from such young pigs. Pigs thus bred have not probably 15 per cent

The third point is the constitution. However fine and nice, and true to type or form he may be, he is worthless without a strong and vigorous constitution. No matter if the sow is strong and robust, if she be bred to a boar with a weekly constitution, the chances are that the pigs will inherit the weak points, and many will die before they are marketable. The points that indicate a good constitution are a broad deep chest, with well arched ribs. which rive good play to constitution are a broad deep chest, with well arched ribs, which give good play to the lungs, consequently a good circula-tion of the blood essential to the thriving and fattening of any animal; a large abdomen, a broad, deep loin, which indicates a well developed muscular system and digestive apparatus, are points that should not be overlooked. Disposition is a point that is a well work overlooked. is a point that is well worth considering is a point that is well worth considering, and the sire to be used should be mild, quiet and controllable in his disposition. Quietness is one of the essentials in pigs for early maturity. The breeding sow should have a small, lively head, a broad and deep chest, round ribs, capacious barrel, a haunch falling almost to the hough deep and broad loin, and ample hins, and good length of body in prohough, deep and broad loin, and ample hips, and good length of body in pro-portion to its height. One point must not be lost sight of, and perhaps it might be the first point sought, and that is, smallness of bone. Breed for the least waste of bone and offal possible. A breeding sow should have at least twelve teats, as a first-class breeder will gener-ally have twelve or more pigs, and as each pig must have a teat, a sow with each pig must have a teat, a sow with less than that number would be faulty as a breeder. A good breeding sow should produce a good number of pigs and all of equal vigor. To be a good breeder she should be a good mother, mild and quiet in disposition, for if tainted with any bad faults or habits she will transmit them to her progeny. When a sow is proved to be a good breeder and mother, it is best to keep her for a breeder as long as she retains health and vigor.—Mirror and Farmer. each pig must have a teat, a sow with

place to farrow. It is for this reason that there is so much advantage in using full-blooded boars of improved breeds on large, coarse-boned native sows. The progeny secures the good qualities from its sire with a better constitution and more hardiness than it could get from a full-blood pedigree, going back through generations which have always had ample feed and little exercise.

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genuine coin:
"I have long been afflicted with rheuma sm, a badly disordered liver and by general



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debility. All my strength seemed gone. I ried a number of other remedies without obtaining relief, but I do hereby testify to the great merits of Parker's Gisger Toxic, since after the use of two bottles I find myself feeling well and strong again—in fact, like a new man. I cheerfully recommend it as an excellent strengthening and invigorating tonic."

Names and dates are of supreme importance. Testimonies are readily manufactured, but the foregoing is from a letter dated St. Louis, Mo., Aug. 90, 1882, and signed by Rev. Edward Willis, founder and ex-pustor of the University Street Baptist Church, residence of their prominent and responsible position, ministers of the gospel are cautions about giving their signatures or influence to any proprietary medicine or advertized article. Hence the value of unsolited testimonials like the foregoing.

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# The Stock Pards.

Weekly Review of the Live Stock Market. WEDNESDAY, July 18, 1883 Receipts for 24 hours, cattle 3013, hogs 3909

and gave a good color to the morning market; a little later the abundance of Texans and sold fairly active at \$5 10 to \$5 40. Heavy Indians, and a disposition on the part of in-terior to get a little advantage on account of full supply made the market look a little blue or slow, but the sellers held the situation and got full prices eventually for interior as well Eastern shipping cattle. Buyers were urgently in search of good fat Texans, but the quality on sale was not very acceptable. Good fat native steers were 10@20c better than last week. Representative sales:

43	native steers	1273	\$5	40
79	native steers	.1172	5	30
48	native steers,	.1183	5	20
41	native steers	1117	5	15
19	native steers	1252	5	25
18	native steers	.1173	5	15
	native steers		. 5	10
18	native steers	.1410	- 5	75
	native steer		5	00
	native steers		5	25
21	Texas steers	. 890	4	00
	Texas steers		4	00
	Texas steers		3	90
	Texas steers		3	80
	Texas steers		3	75
	Indian steers		3	70
	Texas steers		4	10
	Texas steers		4	10
	Texas steers		4	10
	Texassteers		4	10
	Indian steers		4	20
	Indian steers		3	
	Indian steers		4	00
24	Indian steers	. 868	4	15

HOGS-Higher and stronger for everything Good to choice light hogs sold at \$5,7005.85, mixed packing hogs \$4,9005.20, good to best, heavy hogs—butchers and Philadelphias— \$5 30@5 60 and all kinds sold readily.

48\$5 25	25\$5.40	
87 5 40	48 236.1 5 40	
38 244 5 40	12 5 40	
44 174 . 5 80	13 270 5 10	
31 4 50	85 5 10	1
119 5 80	62 189 5 80	
13 5 10	31 5 15	
51 196 5 80	16 5 30	
41 5 75	42 5 75	
68 5 7734	62 5 7736	
16 5 40	48 5 50	
10 202 5 75	29 189 5 75	a
13 5 30	64 5 60	
SHEEP-Strong and	brisk at \$2 50@4 50 in	
extremes, with fair to c	hoice first to sell.	

MONDAY, July 16,11882. 2 p m

CATTLE—Receipts were fair, and market opened with a good feeling and some show of strength over Friday's quotations on fat cattle, choice cattle selling higher, but unfavorable reports from eastern markets caused an easier and slow feeling before the pens were cleared, and latest sales were made at about Friday's prices. Medium to fair, ruled slow throughout the day. Representative sales: 23 native butchers ..... 

52 grass Indians 785	4 12
20 grass Indians 850	4 00
26 grass Indians 855	3.75
24 grass Indians 785	3 95
20 grass Indians 938	4 20
33 native steers	5 37
33 native steers	5 37
72 grass Indians 843	3 85
92 grass Indians 861	3 95
33 grass Indians 905	4 15
12 grass Indians 842	3 70
26 native steers	4 55
26 native cows 942	4 00
57 native steers 1066	4 75
20 grass Texans 788	3 50
21 native cows 873	3 80
21 native cows 938	3 75
20 native cows 838	3 65
38 native steers1084	5 00
47 grass Indians 815	3 70
25 grass Indians 829	3 70
HOUS Market enemed fairly active	

HOGS—Market opened fairly active on packing grades and butchers, and about 15c higher than Friday, but light hogs ruled slow and a shade easier. Butchers selections sold at \$5 30@5 70. Light hogs \$5 35 to 5 50. Common to good heavy packing \$4 50@5 15. Represen-

49 5		57195			
41 5	50	79213	 . 5	45	
24 5		46273	 . 5	25	
49 278 5	25	59198	 . 5	70	
69 5	65	31192	 . 5	45	ı
42 5	30	55 195	 . 5	35	
44 283 4	85	44 272	 . 5	45	
38 5	45	22 282	 . 4	90	
25 5	40	22 282	 . 5	00	
SHEEP-Marke					ı

113..... 88.......\$3 05 79......\$7 There were no failures announce the very great decline in provisions.

FRIDAY, July 13, 1883, 2 p.m. Indian cattle ruled slow and quiet. As compared to previous Friday, good native shipping cattle about 15c lower, and market in Germany. The rye crop of Germany, closed steady. All others are 30c to 45c lower

	native											\$4
	native											3
39	native	stee	rs.	 			 			1047		4
35	native	stee	rs				 			1138		-5
16	native	stee	rs.				 		 	1288		5
16	native	stee	ers	 			 			1457		5
22	native	stee	rs.	 			 			1341		5
	native											5
50	grass T	l'exa	ns.	 	 	 	 			970	5	4

HOGS-Market was active and 10c stronger for York weights, selling at \$545 to \$560— which was about 55c lower than the same which was about 55c lower than the same grade of logs sold for on previous Friday.

Medium weights and butchers selections sold slow at barely Wednesday's prices, \$\$10 to \$\$545 in extremes, or about 65c to 75c lower

Manitoba and Winnipeg. than previous Friday. Heavy hogs of all descriptions slow and hard to sell at \$4.40 to \$500-or 85c to \$100 # cwt lower. Pens probably cleared, and market closed comparatively steady on all grades at prices noted in sales annexed. Representative sales:

11\$4 65	19\$5 50
21 5 50	66 5 55
47 5 60	31 4 85
25 283 4 70	25 173 5 60
14*****220 5 60	58 5 55.
16 281 4 65	107 192 5 55
32 286 4 90	17 5 00
14 256 4 75	42 5 55
SHEEP-Market fairly	active and steady.

We quote choice to fancy at \$3.85 to \$4.15 Good \$3 50 to \$3 90 Fair \$3 00 to \$3 50. Stockers are dull at \$2 00 to \$2 50, and feeders at \$2 75

THURSDAY, July 12, 1883. 2 p. m CATTLE-Market for good shipping cattle opened fairly active at Wednesday's prices, but ruled weak and a shade easier at the

eleared.	Representative sales:	
23 grass	Texans 881	8
46 grass	Indians 799	
23 grass	Indians 789	
22 grass	Texans 905	
49 grass	Texans 896	
24 grass	Texans 841	
15 grass	Texans 856	
20 grass	Texans 841	
20 native	cows 935	
17 native	butchers 922	
17 native	steers	
18 native	steers	
46 grass	Indians 857	
22 grass	Indians 906	
45 grass	Indians 841	
28 grass	Indians	

			steers.			
ı			Texans			
1	24	grass	Texans	 	 76	64
	24	grass	Texans	 	 9	70
	16	grass	Texans	 	 8	2:3
			steers.			
			steers			
			steers.			
			steers			
١			steers.			
6			steers.			
			-Smoot			

CATTLE—Butcher stock sold early and well stronger, and sold active at \$5.35 to \$5.50. Me hogs of all kinds are dull and nominal at \$4 5 to \$5 20. Representative sales:

50\$5 4
35 176 5 4
55 183 5 5
43 5 4
52 5 3
61 182 5 5
24 4 7
37 5 4
13 4 9
18 5 3
active and steady
70\$3 6

#### GENERAL MARKET.

Since last the RURAL WORLD went to press the usual exceptional weather has continued now the most beautiful of summer weathe and then storms of wind and rain that threatened to carry everything before them. For growing pastures and root crops this has been, to say the least, endurable, but to the cu wheat and ripening oats it was anything but a profitable business. We have not heard that corn has suffered, being yet too short in this latitude, but rather the contrary. A run through central Missouri over the Chicago & Alton to Kansas City did not tell a wondrou tale in regard to the growing corn, for all was short and a good deal of it full of weeds. Still it looked strong, was of good color and gave

promise of at least an average crop.

From England we have the following under date of London, July 17th. The Mark Lane Express, in its review of the British grain trade for the past week, says: The neavy vorable for the crops. Native wheats were generally firmer and dearer. Flour was dull. Foreign wheat unimproved except for fine white, which was firmer owing to scarcity. Flour was in moderate supply. Trade slow. Maize cheaper. Friday mixed American brought 25s 6d. ex-ship. Cargoes off coast were very quiet. There were 18 arrivals and 5 sales: 12 cargoes were withdrawn and 9 remain, of which 1 is a California cargo. Sales of English wheat during the week were 33,476 quarters at 42s. 2d. per quarter, against 14,522 quarters at 48s. 5d. for the corresponding & bu or \$1@125 & bbl measure. Sales: 130 sks reek of last year.

Chicago is yet in the ebbs and flows of excitement on things generally. The following dispatch to the Republican of Tuesday will convey some idea of what is thought there.

A yellow fever epidemic in the South always largely cuts off the Southern demand for bacon, ribs and pork. The provision trade between here and the South is so wast that even with all the other avenues for distribution open, the breaking out of the plague is A FINANCIAL CALAMITY

to great Chicago pork packers. This year, however, with the German and French mar-kets closed, with large hog crops abroad, with the American product in bad repute in Eng-land, and with the prospect of a blockade of Southern markets, yellow fever is right enough looked forward to with more than apprehension. The appearance at San Antonio of two cases on shipboard, which have been sent out twenty miles to sea and quarantined, has, in two days, caused pork to drop \$1 50 a barrel and lard 75c per 100 pounds

within the same brief time.

There were rumors that hot corn had been discovered in the warehouses at New York The news increased the weakness caused by the Liverpool failures and the other local bearish influences. It was however denied authoritatively. Indeed, it was a great day for false rumors, one among the others goin the rounds being to the effect that the McGeoch settlement had fallen through.

The very large shipments of oats, corn and provisions continue, but wheat still remains ere and is even arriving faster than it is

shipped. There were no failures announced despite

The prospects for the cereal crops in Eu FRIDAY, July 13, 1883, 2 p.m. rope are generally favorable. The exceptions are Austro-Hungary, where rust and the prevailed, and prices, but the native butchers, Texans, and several governments of South Russia, where good promise, but in both countries there is a deficit in acreage equivalent on an average yield to about 26,000,000 bushels of wheat. British India harvested a large wheat crop in March last, and the export movement of wheat from thence is quite large. Egypt has just harvested an estimated average wheat GRASS SEEDS—Some trading in German wheat from thence is quite large. Egypt has just harvested an estimated average wheat crop. Spain has a spleudid wheat crop this

The winter wheat crop in the U. 8. will be considerably deficient when compared with the fine crop of 1882, but the output has now better promise than a month ago. What the \$1 22. deficiency shall be will not be determinated till the threshing shall have been completed. It may be fifty millions to eighty millions COI bushels. The spring wheat crop has good promise, with an expected output estimated by some as high as 130,000,000 bushels, against 115,000,000 bushels in 1882. The wheat crop of the Pacific coast will be large. It is estimated that the aggregate of California, Oregon and Washington territory will be 75,000,000 to 80,000,000 bushels. The early estimates of the Pacific coast wheat crop have always been too large. The latest advices from California place the surplus available for export at 1,000,000 tons, or 37,333,333 bushels The export surplus of the Pacific coast will be, probably, between 40,000,000 and 45,000,000 bushels, and the quantily required for feed but ruled weak and a shade easier at the close. Native butchers, Texans, Indians and green natives sold irregular and weak. Pens cleared. Representative sales:

| Solution | Content | Co of old wheat in the country on July 1, 1883, are 87% to 92% million bushels. The winter

year. With wheat valued at fifty million of dollars to send abroad and miscellaneous goods worth twenty, we will increase our export trade beyond all precedent and indulge in foreign luxuries, or get back the difference over our imports in gold, expend it in as-sisting manufactures and developing the reources of our coast and attracting hither a numerous and energetic population to fill the still vacant garden spots of our State. Our home markets are undisturbed.

changed our destiny and our history for the

FLOUR-Steady and in fair inquiry for fancies but mediums low and quiet. quote: X \$2 90; XX -3 25; XXX \$3 70; Family \$4 30; choice \$4 25; fancy \$5 50.

WHEAT-No. 2 Red winter (new) cash \$105\%, No. 2 cash, old \$1 09, No. 3 cash, new 96, CORN-No. 2 mixed, cash 46%, No. 2 white

OATS-Market stagnant and movement

mall. We quote No. 2 cash 341/4. HAY-Local feeders took about all the choice to fancy timothy and prairie that was offered, but the lower grades were demoral-ized, the offerings being large and no outlet, shippers doing nothing at all. Sales: E trks-2 cars prime mixed \$9; 2 prime timothy \$10; 2 strictly prime do \$11 50@12. This side 1 choice prairie \$9 50; 5 fancy do \$10; 2 prime timothy \$11 50@12; 2 strictly prime do \$13@13 50; 1 a \$13 75; 2 choice at \$14 50; 4 fancy at \$15. On levee—56 bales common mixed \$7 50; 140 prime timothy \$11; 38 strictly prime \$12.

BUTTER-Offerings in excess of the light ocal inquiry and market quiet and barely steady. Sales of creamery were at 20@21c for steady. choice to fancy, to 22c for selections in mall way; dairy at 15@17c for choice to fancy, and 18c for selections; fair to good 10@12c; ommon8@10c. Country packed—U.changed; receipts and demand both small; quote se lected 9@10c; medium 6@8c; low grade 5@6c

CHEESE-Steady. Round lots from first hands: Prime to choice full stock, 91/2010/4c choice part skims 5/27c; inferior 2/24c—small way 1@3c higher, according to size of lot EGGS-Lower at 12c candled, with demand

POULTRY-Quiet and unchanged. We quote: Spring chickens small and scrubby \$1 25@1 50, medium to fair \$1 75@2, good to choice \$2 25@2 50; old chickens—cocks \$3@ 3 25, mixed \$3 50@3 75, hens \$4@4 25. OLD POTATOES—Choice peachblow jobbing

at 55@60c but market entirely nominal on

other descriptions at from 20 to 35c. NEW POTATOES—In fair demand, shipping and local. Receipts steadily increasing prices sustained. We quote bulk and sacked at 40@421/4c, barrelled at 75c for small and in-ferior to \$1 for fair and \$1 25 for choice large; near-by growth (loose in wagons) at 45@50 early Ohio at 45c, 1 car sacked early rose at 45c del, 1 car early Ohio in bbls and 42 and 52 bbls do at \$1 25 \ bbl.

ONIONS—Few offerings, and these selling fairly at 65 to 75c per bu in sks. TOMATOES—Pientiful and in fair demand,

considerable overripe and soft stock offering. Sales at 50@60c per ½ bu-box for soft to 70c for choice; home-grown at \$2 25@2 50 per bu loose, farm wagons.

CABBAGE-Plentiful and dull at \$1 75 per rate for home-grown on orders.

WHITE BEANS—Quiet. Jobbing from

store: Eastern-Hand-picked navy \$2 35@2 45. do medium \$2 25@235, screened navy \$2 25@2 35, do medium \$2 15@2 25. Country—Good to prime \$1 50@2.

APPLES-Choice shipping stock in fair re quest and steady, but overripe, small and poor stock very dull and low-priced. We quote consigned lots in bbls at \$1@150 for oor to fair, \$1 75 to \$2 25 for good to choice shipping boxes at 15c to 30c \$\frac{14}{2} \frac{1}{2}\$ bu. Sales: 8 bbls soft at \$1 40, 11 do at \$1 35, 20 various at \$2 10, 50 do at \$2 15.

PEACHES-Scarce and enoice stock in good demand. A few bxs from Southern Illinois (all that was ofiered) sold at \$1 25 \(\psi\) \(\frac{1}{25}\) bu.

PLUMS-Quiet and steady. Sound wild goose at 75@85c and chickasaw at 40@50c per s-bu box.

WATERMELONS-Lower but in fair de mand. We quote: Georgia at 15@16 and Texas at \$10@12 per 100 in car lots del. Sales: 1 car Georgia at \$15 1 do at \$16—both del.

BLACKBERRIES-Unchanged. Free sale of soft stock from Arkasas (received Sunday and held over until yesterday morning and some Southern Illinois which came in late Saturday and sold that evening) at 75cc 10 to gal case; sound quotable at \$150c2 40 fe gal case for wild, \$250c8 for cultivated. Homegrown cultivated brought 80c to 90c per gal loose from wagons.

farmers' wagons at 75c # gal for black, 80c fo.

WHORTLEBERRIES -- In fair request a \$2 50@3 \$6-gal case for sound ripe.
GRAPES—Saleable at 8@10c \$\psi\$ b. A few \$5-be

oxes Arkansas sold at \$1 each.

DRIED FRUIT—Inactive and unchanged Apples—6c for dark to 7@7\\(^2\)c for fair to prime. Peaches at 5c for fair to 6 for prime halves: wormy or very dark fruit less. Sales: Apples-17 bbl dark at 5%c, 6 sks fair at 76 millet, but nothing done in other seeds. W

HEMPSEED—Very quiet at \$1 50@1 60. FLAXSEED—Steady, with \$1 30 bid for spot and July del. Sale 5 cars August delivery at

CASTOR BEANS-Nominal at \$1 35 to COTTON SEED AND MEAL-Seed quotes at

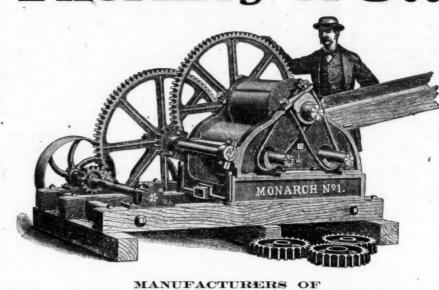
racted at 6%@7%c, new comb at 14@15c-old BROOM CORN—Inquiry fair; steady. We note: Crooked, short, etc., 1¼@2½c, prime@4c, long green hurl 5c to 7c.

WOOL-Very quiet and unchanged. Clear bright straight lots sought most and firm in price, but few of such to be had; all else in ctive and easy, with offerings (though light) in excess of demand. Considerable stock still held here on limits or above current prices; besides dealers generally have much more than they can profitably work off, the demand of late being mainly speculative Quote: Tub-washed—choice at 331/6034c, fai at 32@33c, dingy and low at 27@30c; unwashed -choice bright medium 23@24c, fair to good are 87% to 92% million bushels. The winter wheat crop of 1872 was 386,572,300 bushels. The low grades 16@19c, bright light fine 21@22c, estimated acreage of the winter wheat crop heavy do 16@18c; Kansas—choice bright me of 1883 is 27,734,200 acres, including-3,839,000 for dium at 19@21c, medium fine 16@18c, heav California and Oregon. It is yet to be determined how much of this area has been 13@15c, coarse combing 15@17c, carpet 13@15c. Black, burry and cotted sell at 5c to winter-killed and ploughed up. The estimate 10c # h less than the above figures. Sales: wither and produced up. The centimate 1.000 acres.

18 been recently made as high as 1.000 acres.

19 Concerning the California wheat crop, the 380 San Francisco Journal of Commerce speaks choice at 24c; tub—14 sks low at 31c, 10 poor to choice at 33 round 14 choice at 34c.

# Thornley & Ott,



#### Mills and Evaporators,

LA CROSSE, WISCONSIN.

The above cut represents our 'Monarch" Mill, which is made with rollers varying in size from 16x24 to 30x60 inches. These mills will do more work and stand more pressure than any other mill of the same size that is made. Our mills are all made on the stirrup principle, and are not an experiment, but have been thoroughly tested, STIRRUP mills having been made by a member of our firm as far back as 1859. The principle has stood the test when all others have failed. They are not strictly rigid, but there is a slight flexibility in the stirrups, when under great pressure.

We also make the best AUTOMATIC SKIMMER Evaporator that is made, which will produce more and better sirup and sugar in a given time than any other, and the sirup will keep for years. This Self-Skimmer is so constructed that it will not retard the evaporation, as, not being covered, it is not a steam condenser.

THORNLEY & OTT.

Lock Box 206, LaCrosse. Wisconsin.



THE CHAMPION BOB-TAIL SULKY PLOW has done some remarkably fine work during the Spring trade. The demand for them was very great and the manufacturers were unable to fill their orders. A number of the largest dealers have already received shipments for the Fall trade. Circulars and other infor-

mation can be had from

W. F. SCHENHARD, 108 N. Main St., St. Louis, Mo. Or the manufacturers, J. LANE REED & CO.,

Dayton, O.



BOYD'S BURGLAR **PROOF** Grave Vault. Absolute Protec-tection from GRAYE ROBBERS.

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cessors to the G rave Vault Co Springfield O.



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